# MINE PRODUCTION OF GOLD, SILVER, COPPER, LEAD, AND ZINC IN PEND OREILLE AND STEVENS COUNTIES, WASH., 1902-56

## ANNUAL TOTALS BY MINES, DISTRICTS, AND COUNTIES

BY FRANK B. FULKERSON AND GARY A. KINGSTON

Information Circular 7872

UNITED STATES DEPARTMENT OF THE INTERIOR
Fred A. Seaton, Secretary
BUREAU OF MINES
Marling J. Ankeny, Director

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## FOREWORD

For more than 50 years the Bureau of Mines and the Geological Survey before it have compiled data on mine production. The information on the output of individual properties was collected on a confidential basis and has been published in district, county, and State totals so as to conceal separate operations.

Recently the Bureau of Mines corresponded with owners and operators of mines; and, in most instances, they released the Bureau from its pledge of confidence, particularly where idle mines and data for early years are involved. These old figures, thus available for publication, are the very ones most useful to those trying to expand production through reviving latent resources. Many of the mines to which the data apply have been idle for years. Some are inaccessible, their entries caved, or their workings flooded. The Bureau believes that reliable information on tonnages produced, with metal contents, will encourage expenditures for new investigations.

The Bureau also recognizes that many mines now idle suspended production under conditions much different from those facing the mining industry at present. Metal prices may have been much lower and mining costs much higher because hand labor was used for tasks that are now mechanized, or metallurgical recovery may have been much lower because advances like selective flotation were undeveloped at the time.

The Bureau has annual production records for thousands of mines covering more than a half century of operations, and hopes to make such facts available in its publications. Comments on the usefulness of such information and the effectiveness of this report will be welcomed.

Marling J. Ankeny
Director, Bureau of Mines

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# MINE PRODUCTION OF GOLD, SILVER, COPPER, LEAD, AND ZINC IN PEND OREILLE AND STEVENS COUNTIES, WASH., 1902-56[1/]

## Annual Totals by Mines, Districts, and Counties

by

Frank B. Fulkerson[2/] and Gary A. Kingston[2/]


## SUMMARY

Mining began in Pend Oreille and Stevens Counties about 1885. Lead and zinc have been the principal products, and the area has supplied nearly all the output of these metals in the State. Pend Oreille County's output of lead and zinc from 1902 to 1956 was 110,700 and 229,600 tons, respectively. The Stevens County total was 54,100 tons of lead and 87,600 tons of zinc. Copper ore was produced mainly from the United Copper mine, Chewelah district, from 1912 to 1920; the principal gold mine was the First Thought, Orient district, which was active from 1904 to 1942. Approximately 225 mines and prospects produced; most of the ventures were on a small scale. The total value of gold, silver, copper, lead, and zinc produced from 1902 to 1956 was $75.2 million in Pend Oreille County and $39.4 million in Stevens County.


## INTRODUCTION

In compiling the figures for this report, use was made of Bureau of Mines permanent records of mine production, the annual tabulations of producing mines, and the Minerals Yearbook. Requests to publish individual data, obtained from the annual production canvass, were made to the latest recorded operators of all mines in the area. Response to this request was good; therefore, it was possible to make the tables nearly complete. In a few instances the producer requested that the production data remain confidential, and in others it was not possible to reach the mine operator at his last known address. The district and county tables combine statistics for all mines, including those mines whose output could not be published separately.

The Bureau hopes that the availability of these figures will aid in developing Washington's mineral resources by furnishing basic data to mining companies and persons interested in the base-metal deposits of Pend Oreille and Stevens Counties.

The production figures represent the recoverable content of ore and concentrate and do not include that portion of the gross-metal content estimated to be lost in smelting. The minor quantity of placer gold produced in early years has been omitted from the tables.


## ACKNOWLEDGMENTS

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## MINING DISTRICTS

Figure 1 shows the location of the mining districts with respect to towns, rivers, and creeks.

### Pend Oreille County

Metaline district covers about 400 square miles and, in the western portion, is cut by the valley of the Pend Oreille River. This district has recorded significant lead-zinc production, especially from the Pend Oreille and Grandview mines.

Newport district, in the southeastern corner of Pend Oreille County, has reported only minor metal production.

### Stevens County

Chewelah district, encompassing about 450 square miles, is in central Stevens County, on the east and west sides of Colville Valley. Although this district, established shortly after 1885, was one of the first in the county, very little development was accomplished before 1900. Growth was stimulated in 1905, when mining and business men of Chewelah publicized the district at the Lewis and Clark Exposition at Portland, Oreg. United Copper Mining Co. was incorporated in 1906 to operate a copper deposit 5 miles northeast of Chewelah. This mine was one of the major supporting industries of the community for many years.

Bossburg (Clugston Creek) district lies in north-central Stevens County, near the divide between Onion and Clugston Creeks. The Bonanza and Young America mines have been the leading producers.

Colville (Old Dominion) district is northeast of the town of Colville. The Old Dominion mine, 7-1/2 miles from Colville on the southern slope of Old Dominion Mountain, was located in 1883. It was the only mine in the district that had a significant production record.

Deer Trail district is in the southwestern corner of the county, on the crest of the Huckleberry Range. The more important mines were in Cedar Canyon, about 20 miles west of Springdale, and the area is sometimes referred to as Cedar Canyon District. The first locations were made by farmers from the Big Bend area and by army men stationed at Old Fort Spokane.

Kettle Falls district embraces the area lying west of the Huckleberry Range and east of the Columbia River from Kettle Falls southward to Daisy. There have been no large producers in this area, but numerous small claims have been located. The Silver Queen mine has been the largest single producer. Myers Falls district is included under and is considered to be part of the Kettle Falls district, owing to its proximity. The Myers Falls district, with an area of about 50 square miles, lies in the northern and western portions of the county, east of the junctions of the Colville and Kettle Rivers with the Columbia River. The majority of properties are north of Myers Falls.

Northport (Aladdin) district covers about 375 square miles and is bounded on east by Pend Oreille County, on the north by the International Boundary, on the south by the divide between Deep, Onion, Clugston, and Mill Creeks, and on the west by the Orient district. It is the largest district in the two counties in terms of the number of mines which have produced, including Deep Creek, Electric Point, Gladstone, Last Chance, Lead Trust, and Van Stone.

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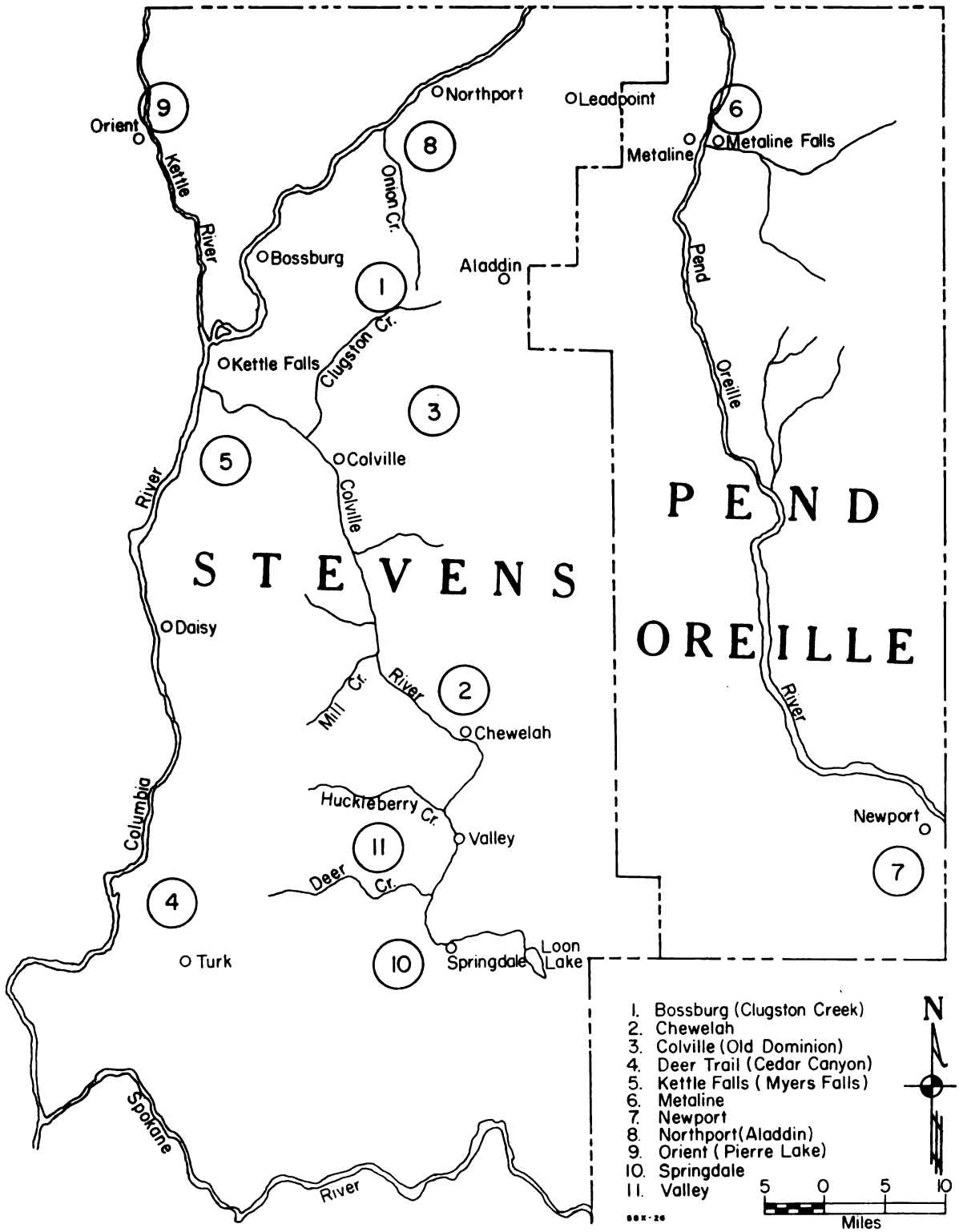


FIGURE 1. - Mining Districts of Pend Oreille and Stevens Counties, Wash., in Relation to Towns, Rivers, and Creeks.

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Orient district occupies the western part of triangle between Kettle River, Columbia River, and the International Boundary, in Stevens County and extends across the Kettle River into Ferry County. Napoleon and First Thought were two of the original mines in this area, having been located near the turn of the century. The district, formed in 1902 in the name of Orient Improvement Co., also has been known as the Pierre Lake district.

Springdale district comprises several properties about 14 miles west of Springdale in Stevens County, near the summit of the Huckleberry Mountains. A group of copper deposits northeast of Springdale also is included in this district. The Cleveland mine has been the outstanding producer.

Valley district lies south of Chewelah district in the south-central portion of Stevens County. It includes properties in the foothills west of the town of Valley, as well as a number of small prospects 3 miles east of Valley. Little activity has been reported in this area.

## HISTORICAL BACKGROUND

Pend Oreille and Stevens Counties form the northeastern corner of Washington. Stevens County, named in honor of Isaac I. Stevens, first Governor of Washington Territory, was organized January 20, 1863. Pend Oreille County, named after an Indian tribe, did not come into existence until March 1, 1911, when it was cut out of the eastern portion of Stevens County. The first mining activity in the region began about 1865 with the search for placer gold; however, the major placer deposits were found to the west, in Ferry and Okanogan Counties, and attention was drawn away from the more meager placers of Stevens and Pend Oreille Counties.

The first lode mining began in 1883 at Embry camp, 2 miles east of Chewelah, when a party of prospectors sent out by John N. Squire of Spokane discovered lead-silver mineralization. A rush of prospectors followed, and exploration soon was extended northward. Next came location of the Old Dominion mine near Colville. Active development of the mine began in 1885, and it became the first important producer in the area. Colville discoveries were followed closely by mineral locations in the Chewelah, Deer Trail, and Orient districts. Many of the lead, copper, and silver deposits proved to be too low grade to bear high transportation and treatment charges, and significant development did not begin until a railroad into the county was completed in the 1890's.

A stimulus to the area's growth was construction of a copper smelter at Northport by Union Smelting & Refining Co. as a facility for the LeRoi mines near Rossland and Trail, in Canada, which produced ore high in gold, silver, and copper. The smelter was blown in during the winter of 1897-98. In 1899 the smelter was sold to an English company and thereafter became known as Northport Smelting & Refining Co., Ltd. The plant processed the output of the LeRoi, Kootenai, and Velvet mines, all in Canada; some custom work also was handled. A strike closed the smelter in 1901. After 1902 the smelter operated sporadically for 5 years and then became idle. In 1916, Day Bros. purchased the plant to process the production of the firm's mines in the Coeur d'Alene region, Idaho. To provide refining facilities and a market for their output, the Day interests also acquired control of Pennsylvania Refining Co., Pittsburgh, Pa.

Reopening of the smelter rejuvenated the economy of Northport. About 240 men were employed in constructing a new and substantial plant. Installation of furnaces to treat lead ore (previous facilities accommodated only copper ore) was very important to the area. Although the plant was reopened for the special purpose of treating

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ore from the Hercules, Tamarack, and Custer properties in Idaho, it also treated custom ores. New equipment included two 250-ton lead furnaces. Three of the 6 copper furnaces were renovated; 4 Dwight-Lloyd sintering machines were set up; and a Cottrell fume precipitator was added to treat furnace and roaster gases.

In 1917 the smelter was credited with a production of 45,000 tons of lead bullion from a charge of 400,000 tons of ore. In 1918 operations were limited to about 8 months, resulting in a 30 percent decline in output. Production was reduced further in 1919 as a result of a strike in the Coeur d'Alene region, Idaho, which supplied most of the ore. Conditions improved in 1920, and the plant operated at capacity for 9 months. In 1922, after 5 years of operation, with a peak employment of 400 men, the smelter was sold to American Smelting & Refining Co., owing to the lack of enough ore to maintain it as an economic operation. This marked the end of the Northport smelting operations. Its closing rerouted much of the ore from Stevens County to the Bunker Hill smelter at Bradley, Idaho. The roasting machinery and blast furnaces were dismantled and shipped to East Helena, Mont., and the Cottrell precipitator was moved to Chewelah, Wash., to be used in the Northwest Magnesite Co. plant.

## Chronology of Mining Industry

The following is a chronology of some activities of the mining industry in Stevens and Pend Oreille Counties, beginning in 1905.

1905. - The First Thought mine, Orient district, was the largest gold producer in the State; and the Copper King mine, Chewelah district, produced the greatest part of the small copper output. Most of the silver production in Stevens County also came from the Chewelah district.

1906. - The value of metal produced was about 70 percent that in 1905. The greatest quantity of silver was yielded by the Deer Trail mine in the Deer Trail district. Copper was produced mainly from the Napoleon mine, Orient district, and the Copper King mine, Chewelah district. The Last Chance mine at Northport, the principal lead producer, shipped nonargentiferous ore direct to Joplin, Mo.

1907. - The most productive mine, in total value, was the First Thought gold-silver mine, Orient district, which shipped crude ore to various smelters. At Bossburg the Bonanza silver-lead mine, owned by Deer Trail Consolidated Mining Co., was being brought into production. At Chewelah United Copper Mining Co. and Jay Gould Mining Co. made small shipments for test purposes. In Deer Trail district, fair-grade ore could be mined, but transportation and treatment costs totaling $21 per ton kept production to a minimum. The operators lacked funds for constructing mills to reduce freight costs and obviate the necessity of hand sorting and picking.

1908. - The total value of mineral production increased $75,000 over 1907. Robena Silver Lead Mining Co., Bossburg district, reported new veins opened, some showing 3 feet of low-grade copper ore. The United Copper Mining Co. at Chewelah, becoming established as a large producer, shipped crude ore carrying copper and silver to the Granby (British Columbia) smelter. The Deer Trail district was comparatively quiet, due to the low price of silver and the distance from railroad transportation. At that time it was impossible to ship profitably ore carrying 8 to 10 percent of copper and 60 ounces of silver. At Metaline the mine operators were awaiting completion of a railroad branch line, and only development was done. The First Thought mine, Orient district, producing mostly gold and some silver, continued to be the most productive property in the State.

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1909. - Stevens, the leading metal-producing county in 1908 in terms of value, dropped to second place behind Ferry. Orient was the most productive district, with the First Thought mine yielding the largest values. The largest quantity of copper and lead came from Chewelah and Bossburg districts, respectively.

1910. - Stevens County sustained decreases in output of all metals but lead; gold suffered the largest decline in terms of value. The number of operations in the county increased by 8, but the tonnage of ore decreased 4,500 tons. Operators of the Napoleon mine, Orient district, constructed a 10-stamp mill for amalgamating and cyaniding ore from the oxidized portion of the ore body. Lead ore containing little or no silver, primarily from the Last Chance mine, Northport district, continued to be shipped to Missouri for smelting.

1911. - In the Metaline district the Oriole mine shipped ore containing zinc; this was the first record of zinc being marketed from this area. The Napoleon gold mine, Orient district, shipped low-grade sulfide ore for use as a flux and treated a soft oxidized ore by amalgamation and cyanidation. A new 75-ton concentration plant erected by United Copper Co., Chewelah district, operated on sulfide-copper ore.

1912. - Although no ore was shipped from Metaline district, development was in progress, and mills were contemplated for the Clark group of the Lead-Zinc Co. and the Metaline Oriole mine of Metaline Oriole Mining Co. In Chewelah district, United Copper Co. continued development and milled and shipped copper ore throughout the year.

1913. - No shipments were made from the low-grade lead-zinc deposits of the Metaline district. At the Clark property a 250-ton concentration plant was under construction. This plant was to have two Blake crushers, a Chilean mill, classifiers, jigs, and tables. In the Bossburg district the Young America and Bonanza mines shipped lead sulfide ore to East Helena, Mont., and Trail, British Columbia. The main producer in the Chewelah district was the United Copper Co., which was active the entire year. Much development was done, electric power was installed, and 4 batteries of 3 stamps each were added at the mill.

1914. - A depression in the metal market affected production of silver and copper, especially in the Chewelah district. The United Copper Co. property was idle part of the year, until a contract was made with the Trail smelter. Development exposed a large quantity of ore, and the milling capacity was increased from 120 to 200 tons. The Copper King mine, Chewelah district, had a small output of low-grade copper sulfide ore. Some sulfide-lead ore was shipped from the Bonanza mine, Bossburg district, although the property was idle most of the year. The Napoleon mine, Orient district, produced iron sulfide ore containing gold, silver, and copper, but the property was closed in May.

1915. - In the Metaline district the Clark property, belonging to the Lead & Zinc Co., shipped zinc concentrate and oxidized crude ore. This was the first zinc shipment since 1911, and was an indication that the zinc resources of the region were becoming important. The capacity of the concentration plant was increased to 100 tons.

The United Copper Co., Chewelah district, increased its daily milling capacity to 250 tons through conversion to the oil-flotation process. In Colville district the Old Dominion mine, which had been closed for 12 years, was reopened by the Old Dominion Mining & Milling Co. Several shipments were made before the property was closed by litigation. A discovery of high-grade galena was made at the Electric Point property, Northport district. The Northport smelter was sold to Day Bros. of Wallace, Idaho.

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1916. - The United Copper Co., Chewelah district, increased its output over 1915. Many new mines produced; most of the ore was copper sulfide. In the Springdale district a new producer, Loon Lake Copper Co., made ore shipments averaging more than 10 percent copper. The Electric Point mine, Northport district, made 151 carload shipments of both carbonate and sulfide ore to British Columbia.

1917. - During 1917 mining was influenced by the war. Smelting conditions were generally unfavorable, and the cost of labor and supplies was abnormally high. The smelters at Trail, British Columbia, which received copper and lead ores from northeastern Washington, suffered from a shortage of coke and from strikes. As a result, the mines in the eastern part of the State had to ship ore to the Tacoma smelter, where they had no smelting contract. Despite these adverse conditions, lead output increased.

In the Metaline district the Josephine mine supplied the major portion of the output. A 175-ton concentration plant using tables and flotation was operated.

In the Bossburg district the Young America mine made a shipment of low-grade zinc ore to the leaching plant at Great Falls, Mont. The United Copper Co. remained the most important producer in the Chewelah district; milling capacity was increased to 400 tons per day to handle increased tonnages of low-grade ore. In the Northport district the Electric Point mine furnished most of the output, with the Gladstone mine also making a good showing.

1918. - The cost of material and supplies, as well as freight and smelting charges, increased over those in 1917. There was a labor shortage, due partly to shipbuilding in the West. Wages were high, and in the latter part of the year work was seriously affected by the epidemic of influenza. The average prices of copper, lead, and zinc were less than in 1917, and when hostilities ceased in November there was a decided decrease in metal prices.

The Bonanza mine, Bossburg district, formerly an important lead producer, shipped dump material containing a small percentage of lead and considerable silver. In the Chewelah district, the United Copper Co. curtailed output owing to difficulty in marketing its product. The Electric Point mine continued to rank first in production in the Northport district. In the Springdale district the Cleveland mine produced several carloads of lead carbonate. The mine had a 50-ton concentration mill.

1919. - Mining conditions remained much as they were in 1917 and 1918. Labor shortages at the United Copper mine made it necessary to mine all the ore by contract. The Loon Lake Copper Co., Springdale district, completed a 100-ton concentration plant, consisting of ball mills, classifiers, thickeners, flotation cells, and filter. In the Northport district no mills were operated. The Electric Point mine continued as the district's leading producer, but difficulty was experienced in finding adequate markets.

1920. - Mining generally was unprofitable, owing to high costs and the low grade of available ores. The United Silver-Copper Mining Co., Chewelah district, continued production, but at a greatly reduced rate. No development was done during the year, but 3,000 tons of crude copper ore and concentrate was shipped to Tacoma. In the Northport district the Electric Point mine maintained a high level of lead production but failed to return a profit. Also in the Northport district, a concentration mill was being constructed at the Lead Trust mine, and several hundred tons of carbonate zinc ore was shipped to an eastern smelter from the Northwest mine on Deep Creek.

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1921. - Activity in mining remained slow. Some gold-silver properties were reopened, and a sizable quantity of zinc ore was developed in Stevens County.

A mill was being constructed at the Bead Lake property, Newport district. The United Silver-Copper Mining Co., Chewelah district, shipped crude ore to Tacoma at a rate of about 100 tons a month. Several shipments and development were reported at the Old Dominion mine, Colville district. The Electric Point mine, Northport district, was idle due to the low price of lead and lack of silver in the ore. The Black Rock mine, Northport district, shipped ore and concentrate to an eastern zinc-oxide plant.

1922. - The output of all five metals increased. The United Silver-Copper Mining Co., Chewelah district, operated its concentration-flotation mill a short time during the year. The company estimated that reserves totaled 10,000 tons of low-grade copper-silver ore. The Electric Point mine, Northport district, remained idle, but several hundred tons of stockpiled ore was shipped for smelting. Also in the Northport district the Gladstone mine became a regular producer; several additional ore chimneys were opened. The Black Rock mine, 6 miles northeast of Northport, produced a large quantity of zinc, most of which was shipped to the electrolytic-zinc plant at Trail, British Columbia. In the Orient district the First Thought mine was unwatered and retimbered to the 600-foot level. The leading producer in the Springdale district was the Cleveland mine, which shipped several hundred tons of lead concentrate to Bradley, Idaho. A 100-ton mill and an aerial tramway were completed at the Bead Lake property, Newport district.

1923. - Increased copper, lead, and zinc prices brought about a slight revival in mining activity, especially at Northport; however, the Electric Point mine was idle, pending settlement of a tax claim and the Black Rock mine operated only part of the year, as operations were hampered by an inflow of water and by faults in the ore body.

At the Daisy property, Kettle Falls district, a 50-ton concentration plant was being constructed.

1924. - Increased metal demand encouraged development in the lead producing districts. The Electric Point Mining Co., Northport district, settled a tax claim and prepared for regular shipment in 1925. The Gladstone mine emerged as the leading lead producer in the State, and the Black Rock mine had the largest zinc output. At the Chloride Queen in Colville district, a 50-ton concentration mill was being erected. The United Silver-Copper mine, Chewelah district, operated throughout the year, but was no longer the significant producer of previous years.

1925. - Higher average prices for silver, copper, lead, and zinc increased activity, particularly in the development of the lead deposits in the Northport district. The Metaline district also displayed considerable activity; the largest producer was the Grandview mine, where a new 50-ton concentration mill was being installed.

Operations at the Bonanza mine, Bossburg district, were interrupted by the burning of its 75-ton concentration plant. The United Silver-Copper mine, Chewelah district, was in the hands of a receiver. Several small shipments were made from the property by lessees.

1926-27. - Revival of mining in the Metaline district continued. Most of the production in the district came from the Bella May and Grandview mines. The Z Canyon group, 10 miles north of Metaline Falls, was acquired by Pend Oreille Lead & Zinc Co.

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The Old Dominion mine was the largest producer in the Colville district, and the Gladstone mine supplied about half of the output from Northport district. At the Red Top mine, Northport district, lead ore of shipping and milling grades was opened; some scheelite was found occurring with the galena.

1928-29. - The Pend Oreille Lead & Zinc Co. began extensive operations at the Pend Oreille mine, and the Grandview mine was being developed by Grandview Mines, Inc.

1930-39. - The primary interest throughout Stevens County districts during the depression years was in gold and silver. Lead production in the county dropped 90 percent from 1928 to the mid-1930's, after nearly all base-metal mines closed.

In Pend Oreille County the Grandview mine, which had promised to become a large producer, was closed in 1930 owing to low metal prices. The mine was in the process of development during the latter half of the 1930's but did not make shipments until after the depression. The Pend Oreille mine maintained high production throughout most of the depression. In 1930 Pend Oreille Mines & Metals Co. constructed a modern hotel at Metaline Falls. Plans to construct a large new mill were interrupted by the drop in metal prices during the year. Instead, the old 200-ton concentration plant was reconditioned.

In 1935 Pend Oreille mine output was curtailed. By 1936, however, activity again was expanded, and a new 300-ton flotation plant was put into operation. In 1937 the company completed a 5,000-horsepower hydroelectric plant on the river below Metaline Falls, and by 1939 a modern 700-ton flotation mill had been completed.

1940-45. - The depression was followed by accelerated mining in response to increased base-metal requirements during World War II. Stevens County districts were revived by the greater demand, but developed mines that could expand production rapidly were few. The Metaline district of Pend Oreille County was in the opposite position, and production was increased rapidly and appreciably during this period, reaching peak output in 1942. Shortages of labor and electric power prevented greater advances in production in later war years.

The American Zinc, Lead & Smelting Co. Grandview mine, Metaline district, began shipping concentrate in 1940 from a 450-ton flotation plant. In 1942 the mill was increased to a 600-ton-per-day capacity, which facilitated processing Bella May-mine ore in conjunction with that of the Grandview mine.

The Blue Ridge mine, Northport district, began producing in 1941, and a 60-ton flotation mill was built late in the year. At the Frisco-Standard mine, also in the Northport district, a 40-ton flotation mill was constructed in 1942. The Bonanza mine, Bossburg district, was reopened during the same year; equipment was installed, and plans were made for a 60-ton concentration mill.

In 1942 an extensive drilling campaign was started by the Bureau of Mines and the Geological Survey in mineral-bearing areas controlled by the Pend Oreille Mines & Metals Co. and the American Zinc, Lead, & Smelting Co. By 1944 the drilling program had indicated 9 million tons of about 5 to 7 percent combined metals in zinc-lead ore. The Bureau of Mines also examined the Blue Ridge property in 1943 and, based upon that examination, began a diamond-drilling campaign to explore the possible extension of surface-ore indications.

Lead output from the Pend Oreille mine in 1944 was the highest on record due to the higher lead content of the ore treated. First production was recorded from the Deep Creek mine, Northport district, which was to become one of the major producers

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in the area. Milling capacity at the Blue Ridge mine was increased to 90 tons to enable treatment of the Deep Creek output.

1946-56. - The postwar years marked a period of increased production in response to industrial demand for lead and zinc. This trend continued throughout the Korean War. A decline in metal prices, beginning in 1952 forced closure of most of the mines in the two counties, but the output of some major producers continued to climb.

In 1946 the Grandview and Bella May mines, Metaline district, were hampered by strikes. Labor difficulties again closed the Grandview mine in 1948-49 for a total of 15 months. In 1950 the Pend Oreille Mines & Metals Co. installed the first 800-unit of a projected 2,400-ton flotation mill. In 1952-54 the company completed two additional 800-ton flotation units, installed units for trackless mining, and constructed residence housing. Difficulty was experienced in acquiring skilled labor.

The Anaconda Co. obtained a purchase option on the Bonanza mine, Bossburg district, in 1951, and operated it and a 100-ton mill through November 1952 before relinquishing the option. Activity was limited to exploration. In September 1953, the American Zinc, Lead & Smelting Co. Grandview operation was cut back to a 1-shift, 40-hour week. Increased mechanization was necessary to maintain operations in the face of falling lead and zinc prices. A significant development in the Northport district during 1952 was the first production from the American Smelting & Refining Co. Van Stone open-pit zinc mine and 1,000-ton flotation mill. The Van Stone mill initially was operated 24 hours per day, 7 days per week, but completion of the company contract with the Government for production of zinc at a floor price of 15-1/2 cents per pound placed the operation on a marginal basis. In 1955 it was reported that enough ore was available for several years' operation.

High operating costs and difficulty in marketing zinc concentrates prompted the Goldfield Consolidated Mines Co. to shut down the Deep Creek mine in the Northport district in 1956.

Mining in Pend Oreille and Stevens Counties has played an important part in the development of the Inland Empire. Much labor and investment have been involved. The spirit of free enterprise and the application of capital investment have been significantly demonstrated from the time of the Northport smelter to the present highly mechanized mining operations. With adequate capital, development, and markets, a continued upward trend of productivity should be anticipated.

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TABLE 1. - Mine production of gold, silver, copper, lead, and zinc in Pend Oreille and Stevens Counties, Wash., 1902-56, by counties and districts, in terms of recoverable metals

PEND OREILLE COUNTY

| Year | Ore (tons) | Gold (fine oz.) | Silver (fine oz.) | Copper (lb.) | Lead (lb.) | Zinc (lb.) | Value |
|---|---|---|---|---|---|---|---|
| 1906 ..... | 26 | | 45 | | 34,100 | | $1,973 |
| 1911 ..... | 51 | 9 | 1,602 | 411 | 11,982 | 20,590 | 2,799 |
| 1915 ..... | 3,111 | | | | | 244,906 | 30,368 |
| 1916 ..... | 15,145 | | 85 | | 37,695 | 861,322 | 118,074 |
| 1917 ..... | 15,096 | 8 | 1,552 | 490 | 130,324 | 1,176,715 | 132,816 |
| 1918 ..... | 273 | | 394 | 149 | 193,878 | 38,873 | 17,736 |
| 1919 ..... | 15 | 5 | 288 | 399 | | | 497 |
| 1922 ..... | 13 | | 220 | 62 | 7,372 | | 638 |
| 1923 ..... | 884 | 2 | 509 | 10,191 | 53,730 | | 5,713 |
| 1924 ..... | 966 | | 1,291 | | 868,920 | | 70,378 |
| 1925 ..... | 914 | 2 | 1,043 | | 757,652 | | 66,675 |
| 1926 ..... | 813 | 4 | 1,818 | 117 | 326,931 | 65,485 | 32,313 |
| 1927 ..... | 35,348 | 11 | 2,913 | 1,075 | 290,861 | 936,576 | 80,285 |
| 1928 ..... | 700 | 1 | 721 | 11,047 | 55,085 | | 5,229 |
| 1929 ..... | 50,920 | 8 | 2,250 | 4,762 | 655,958 | 2,061,574 | 179,592 |
| 1930 ..... | 7,232 | 9 | 1,219 | 625 | 549,354 | 703,782 | 61,996 |
| 1931 ..... | 80,968 | 16 | 4,595 | 2,670 | 2,514,977 | 9,947,495 | 472,959 |
| 1932 ..... | 33,443 | 28 | 2,606 | 3,396 | 1,364,066 | 4,489,334 | 177,142 |
| 1933 ..... | 48,479 | 19 | 3,263 | 5,062 | 1,443,783 | 6,738,169 | 338,365 |
| 1934 ..... | 28,322 | | 1,151 | 2,575 | 473,649 | 3,852,419 | 184,567 |
| 1936 ..... | 76,060 | | 3,317 | 6,011 | 1,540,847 | 8,777,220 | 512,974 |
| 1937 ..... | 106,038 | | 12,587 | 58 | 5,292,339 | 8,190,600 | 854,730 |
| 1938 ..... | 249,184 | | 14,584 | | 8,018,500 | 22,804,000 | 1,473,116 |
| 1939 ..... | 259,320 | | 11,603 | | 7,018,404 | 20,260,558 | 1,391,570 |
| 1940 ..... | 273,233 | | 8,609 | | 4,989,500 | 23,120,000 | 1,712,157 |
| 1941 ..... | 361,041 | | 10,807 | | 7,637,900 | 28,402,000 | 2,573,300 |
| 1942 ..... | 397,630 | | 9,630 | | 9,106,000 | 27,240,000 | 3,150,270 |
| 1943 ..... | 311,245 | | 7,335 | | 9,161,000 | 18,584,000 | 2,699,363 |
| 1944 ..... | 305,516 | | 15,580 | | 10,555,000 | 18,471,000 | 2,961,173 |
| 1945 ..... | 253,884 | | 11,191 | | 7,011,000 | 15,588,000 | 2,403,559 |
| 1946 ..... | 247,648 | | 7,375 | 13,000 | 4,448,000 | 15,370,500 | 2,368,098 |
| 1947 ..... | 295,015 | | 10,674 | 4,400 | 6,900,000 | 19,508,800 | 3,364,749 |
| 1948 ..... | 223,602 | | 9,521 | | 8,593,000 | 11,969,000 | 3,138,641 |
| 1949 ..... | 243,962 | | 11,396 | 16,500 | 8,059,200 | 12,992,200 | 2,897,951 |
| 1950 ..... | 417,228 | | 20,432 | 15,500 | 14,889,000 | 22,064,000 | 5,164,819 |
| 1951 ..... | 510,207 | 30 | 22,896 | 36,900 | 10,467,800 | 25,505,400 | 6,483,614 |
| 1952 ..... | 603,022 | 22 | 29,910 | 55,000 | 18,148,000 | 28,815,010 | 7,746,270 |
| 1953 ..... | 734,967 | 50 | 34,574 | 64,000 | 17,388,000 | 34,370,000 | 6,281,787 |
| 1954 ..... | 595,629 | 20 | 22,616 | 20,000 | 17,312,000 | 17,726,000 | 4,313,221 |
| 1955 ..... | 699,107 | 9 | 26,329 | 52,000 | 16,196,000 | 23,316,000 | 5,324,612 |
| 1956 ..... | 799,457 | 2 | 29,373 | 52,000 | 18,880,000 | 25,048,000 | 6,444,490 |
| Total ..... | 8,285,714 | 255 | 357,904 | 378,400 | 221,381,807 | 459,259,528 | 75,240,579 |

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TABLE 1. - Mine production of gold, silver, copper, lead, and zinc in Pend Oreille and Stevens Counties, Wash., 1902-56, by counties and districts, in terms of recoverable metals (Con.)

METALINE DISTRICT

| Year | Ore (tons) | Gold (fine oz.) | Silver (fine oz.) | Copper (lb.) | Lead (lb.) | Zinc (lb.) | Value |
|---|---|---|---|---|---|---|---|
| 1906 ..... | 26 | | 45 | | 34,100 | | $1,973 |
| 1911 ..... | 51 | 9 | 1,602 | 411 | 11,982 | 20,590 | 2,799 |
| 1915 ..... | 3,111 | | | | | 244,906 | 30,368 |
| 1916 ..... | 15,145 | | 85 | | 37,695 | 861,322 | 118,074 |
| 1917 ..... | 15,093 | 8 | 1,504 | 490 | 129,639 | 1,176,715 | 132,717 |
| 1918 ..... | 245 | | 264 | | 184,734 | 38,873 | 16,917 |
| 1923 ..... | 34 | | 46 | | 31,233 | | 2,224 |
| 1924 ..... | 966 | | 1,291 | | 868,920 | | 70,378 |
| 1925 ..... | 914 | 2 | 1,043 | | 757,652 | | 66,675 |
| 1926 ..... | 813 | 4 | 1,818 | 117 | 326,931 | 65,485 | 32,313 |
| 1927 ..... | 35,348 | 11 | 2,913 | 1,075 | 290,861 | 936,576 | 80,285 |
| 1929 ..... | 50,920 | 8 | 2,250 | 4,762 | 655,958 | 2,061,574 | 179,592 |
| 1930 ..... | 7,200 | 9 | 1,023 | 315 | 534,370 | 703,782 | 61,132 |
| 1931 ..... | 80,968 | 16 | 4,595 | 2,670 | 2,514,977 | 9,947,495 | 472,959 |
| 1932 ..... | 33,443 | 28 | 2,606 | 3,396 | 1,364,066 | 4,489,334 | 177,142 |
| 1933 ..... | 48,479 | 19 | 3,263 | 5,062 | 1,443,783 | 6,738,169 | 338,365 |
| 1934 ..... | 28,322 | | 1,151 | 2,575 | 473,649 | 3,852,419 | 184,567 |
| 1936 ..... | 76,060 | | 3,317 | 6,011 | 1,540,847 | 8,777,220 | 512,974 |
| 1937 ..... | 106,028 | | 12,525 | | 5,287,797 | 8,190,600 | 854,407 |
| 1938 ..... | 249,184 | | 14,584 | | 8,018,500 | 22,804,000 | 1,473,116 |
| 1939 ..... | 259,320 | | 11,603 | | 7,018,404 | 20,260,558 | 1,391,570 |
| 1940 ..... | 273,233 | | 8,609 | | 4,989,500 | 23,120,000 | 1,712,157 |
| 1941 ..... | 361,041 | | 10,807 | | 7,637,900 | 28,402,000 | 2,573,300 |
| 1942 ..... | 397,630 | | 9,630 | | 9,106,000 | 27,240,000 | 3,150,270 |
| 1943 ..... | 311,245 | | 7,335 | | 9,161,000 | 18,584,000 | 2,699,363 |
| 1944 ..... | 305,516 | | 15,580 | | 10,555,000 | 18,471,000 | 2,961,173 |
| 1945 ..... | 253,884 | | 11,191 | | 7,011,000 | 15,588,000 | 2,403,559 |
| 1946 ..... | 247,648 | | 7,375 | 13,000 | 4,448,000 | 15,370,500 | 2,368,098 |
| 1947 ..... | 295,015 | | 10,674 | 4,400 | 6,900,000 | 19,508,800 | 3,364,749 |
| 1948 ..... | 223,602 | | 9,521 | | 8,593,000 | 11,969,000 | 3,138,641 |
| 1949 ..... | 243,962 | | 11,396 | 16,500 | 8,059,200 | 12,992,200 | 2,897,951 |
| 1950 ..... | 417,228 | | 20,432 | 15,500 | 14,889,000 | 22,064,000 | 5,164,819 |
| 1951 ..... | 510,207 | 30 | 22,896 | 36,900 | 10,467,800 | 25,505,400 | 6,483,614 |
| 1952 ..... | 603,022 | 22 | 29,910 | 55,000 | 18,148,000 | 28,815,010 | 7,746,270 |
| 1953 ..... | 734,967 | 50 | 34,574 | 64,000 | 17,388,000 | 34,370,000 | 6,281,787 |
| 1954 ..... | 595,629 | 20 | 22,616 | 20,000 | 17,312,000 | 17,726,000 | 4,313,221 |
| 1955 ..... | 699,107 | 9 | 26,329 | 52,000 | 16,196,000 | 23,316,000 | 5,324,612 |
| 1956 ..... | 799,447 | 2 | 29,360 | 52,000 | 18,879,000 | 25,048,000 | 6,444,321 |
| Total ..... | 8,284,053 | 247 | 355,763 | 356,184 | 221,266,498 | 459,259,528 | 75,228,452 |

NEWPORT DISTRICT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1917 ..... | 3 | - | 48 | - | 685 | - | 99 |
| 1918 ..... | 28 | - | 130 | 149 | 9,144 | - | 819 |
| 1919 ..... | 15 | 5 | 288 | 399 | - | - | 497 |
| 1922 ..... | 13 | - | 220 | 62 | 7,372 | - | 638 |
| 1923 ..... | 850 | 2 | 463 | 10,191 | 22,497 | - | 3,489 |
| 1928 ..... | 700 | 1 | 721 | 11,047 | 55,085 | - | 5,229 |
| 1930 ..... | 32 | - | 196 | 310 | 14,984 | - | 864 |
| 1937 ..... | 10 | - | 62 | 58 | 4,542 | - | 323 |
| 1956 ..... | 10 | - | 13 | - | 1,000 | - | 169 |
| otal ..... | 1,661 | 8 | 2,141 | 22,216 | 115,309 | - | 12,127 |

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TABLE 1. - Mine production of gold, silver, copper, lead, and zinc in Pend Oreille and Stevens Counties, Wash., 1902-56, by counties and districts, in terms of recoverable metals (Con.)

STEVENS COUNTY

| Year | Ore (tons) | Gold (fine oz.) | Silver (fine oz.) | Copper (lb.) | Lead (lb.) | Zinc (lb.) | Value |
|---|---|---|---|---|---|---|---|
| 1902 | 1,762 | 9 | 248,750 | 540 | 106,768 | - | $127,474 |
| 1903 | 933 | 121 | 101,567 | 19,038 | 389,512 | - | 75,393 |
| 1904 | 4,596 | 561 | 70,226 | 194,320 | 1,760,309 | - | 147,369 |
| 1905 | 12,016 | 8,024 | 26,196 | 15,449 | 604,843 | - | 212,532 |
| 1906 | 12,244 | 3,764 | 6,327 | 72,313 | 892,000 | - | 146,876 |
| 1907 | 23,122 | 7,236 | 17,100 | 65,044 | 820,035 | - | 217,345 |
| 1908 | 31,863 | 8,895 | 53,296 | 248,432 | 1,146,929 | - | 293,104 |
| 1909 | 23,034 | 5,863 | 21,569 | 220,146 | 288,677 | - | 173,457 |
| 1910 | 18,473 | 1,460 | 13,281 | 85,063 | 1,321,871 | - | 106,319 |
| 1911 | 26,146 | 1,310 | 40,664 | 153,112 | 836,602 | - | 105,412 |
| 1912 | 37,080 | 1,152 | 233,535 | 1,007,076 | 127,387 | - | 339,347 |
| 1913 | 46,150 | 1,135 | 148,167 | 897,467 | 200,848 | - | 260,918 |
| 1914 | 24,536 | 575 | 91,480 | 602,996 | 36,196 | - | 144,092 |
| 1915 | 35,020 | 168 | 109,744 | 617,659 | 271,915 | - | 179,993 |
| 1916 | 68,815 | 434 | 174,612 | 1,478,357 | 5,356,229 | 832,412 | 968,666 |
| 1917 | 82,043 | 182 | 161,013 | 1,647,490 | 9,655,513 | 18,852 | 1,418,494 |
| 1918 | 74,232 | 397 | 168,669 | 1,170,488 | 5,077,152 | - | 826,456 |
| 1919 | 59,319 | 69 | 156,562 | 1,109,371 | 2,086,743 | - | 493,724 |
| 1920 | 46,890 | 97 | 134,037 | 847,858 | 5,753,409 | 426,496 | 798,929 |
| 1921 | 2,552 | 27 | 75,189 | 246,017 | 118,251 | 449,360 | 135,275 |
| 1922 | 11,097 | 49 | 103,108 | 308,996 | 1,347,328 | 1,228,229 | 289,953 |
| 1923 | 13,427 | 66 | 87,560 | 208,575 | 2,827,799 | 3,024,535 | 507,447 |
| 1924 | 11,534 | 130 | 132,931 | 125,033 | 3,059,247 | 910,890 | 412,087 |
| 1925 | 14,819 | 76 | 108,206 | 69,744 | 4,867,919 | 1,200,838 | 601,354 |
| 1926 | 10,558 | 118 | 90,693 | 2,337 | 4,198,417 | 978,869 | 468,646 |
| 1927 | 3,267 | 8 | 19,952 | 69,875 | 662,788 | 343,134 | 84,340 |
| 1928 | 2,145 | 39 | 22,398 | 73,865 | 1,028,327 | 85,318 | 89,396 |
| 1929 | 3,796 | 41 | 22,598 | 86,103 | 351,815 | 55,770 | 53,885 |
| 1930 | 2,107 | 7 | 19,454 | 48,645 | 602,961 | - | 44,104 |
| 1931 | 386 | 71 | 9,303 | 23,975 | 255,573 | - | 15,888 |
| 1932 | 762 | 178 | 656 | - | 475,667 | - | 18,133 |
| 1933 | 263 | 15 | 1,043 | 217 | 235,513 | - | 9,399 |
| 1934 | 7,170 | 1,683 | 17,724 | 2,450 | 102,189 | - | 74,264 |
| 1935 | 5,788 | 1,198 | 17,920 | 3,325 | 197,700 | 2,159 | 63,075 |
| 1936 | 589 | 112 | 7,982 | 1,750 | 136,696 | 28,780 | 18,004 |
| 1937 | 5,810 | 767 | 14,221 | 3,628 | 359,949 | 41,400 | 62,212 |
| 1938 | 14,180 | 1,781 | 31,561 | 14,000 | 498,413 | - | 107,037 |
| 1939 | 3,190 | 132 | 35,786 | 18,279 | 364,192 | 1,442 | 48,004 |
| 1940 | 6,565 | 848 | 22,372 | 69,200 | 101,700 | - | 58,494 |
| 1941 | 17,397 | 1,409 | 22,147 | 218,300 | 163,000 | 238,000 | 117,964 |
| 1942 | 18,398 | 712 | 17,460 | 40,000 | 595,400 | 1,556,000 | 226,776 |
| 1943 | 21,983 | 267 | 15,830 | 43,600 | 567,000 | 1,856,000 | 269,243 |
| 1944 | 33,236 | 382 | 16,830 | 30,000 | 568,000 | 3,022,000 | 419,336 |
| 1945 | 31,708 | 5 | 6,667 | 1,400 | 373,000 | 2,862,200 | 366,336 |
| 1946 | 46,913 | 24 | 21,516 | 7,000 | 1,201,000 | 3,711,000 | 603,010 |
| 1947 | 65,226 | 110 | 58,253 | 14,000 | 3,470,000 | 6,017,400 | 1,251,190 |
| 1948 | 69,497 | 28 | 44,992 | 7,300 | 5,665,200 | 6,696,000 | 1,947,923 |

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TABLE 1. - Mine production of gold, silver, copper, lead, and zinc in Pend Oreille and Stevens Counties, Wash., 1902-56, by counties and districts, in terms of recoverable metals (Con.)

STEVENS COUNTY (Con.)

| Year | Ore (tons) | Gold (fine oz.) | Silver (fine oz.) | Copper (lb.) | Lead (lb.) | Zinc (lb.) | Value |
|---|---|---|---|---|---|---|---|
| 1949 | 68,133 | 21 | 48,604 | 3,800 | 4,709,000 | 3,004,500 | $1,162,053 |
| 1950 | 83,082 | 15 | 47,973 | 2,100 | 5,757,000 | 2,669,600 | 1,200,658 |
| 1951 | 122,368 | 3 | 44,166 | 2,700 | 5,421,600 | 7,098,500 | 2,270,594 |
| 1952 | 152,239 | 9 | 40,319 | 6,600 | 5,320,000 | 9,412,810 | 2,457,449 |
| 1953 | 412,046 | 77 | 29,702 | 50,000 | 4,698,000 | 30,000,000 | 4,109,365 |
| 1954 | 399,754 | 56 | 15,682 | 136,000 | 2,554,000 | 26,594,000 | 3,278,323 |
| 1955 | 490,295 | 96 | 43,865 | 358,000 | 4,424,000 | 35,334,000 | 5,181,852 |
| 1956 | 460,103 | 133 | 22,303 | 430,000 | 4,170,000 | 25,450,000 | 4,348,930 |
| Total | 3,240,657 | 52,145 | 3,313,761 | 13,179,033 | 108,181,582 | 175,150,494 | 39,407,899 |

BOSSBURG DISTRICT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1903 | 90 | - | 9,259 | - | 249,000 | - | $15,000 |
| 1905 | 150 | - | 3,311 | - | 21,176 | - | 3,000 |
| 1907 | 27 | 10 | 265 | - | - | - | 380 |
| 1908 | 671 | - | 3,996 | - | 295,786 | - | 14,541 |
| 1910 | 720 | - | 3,497 | - | 314,579 | - | 15,729 |
| 1911 | 1,397 | - | 5,861 | - | 552,548 | - | 27,971 |
| 1912 | 171 | - | 1,278 | - | 67,579 | - | 3,827 |
| 1913 | 577 | - | 2,563 | - | 184,250 | - | 9,658 |
| 1914 | 82 | - | 423 | - | 32,304 | - | 1,494 |
| 1915 | 569 | - | 2,414 | - | 214,665 | - | 11,312 |
| 1916 | 783 | - | 3,193 | - | 234,260 | - | 18,265 |
| 1917 | 579 | - | 2,183 | - | 179,731 | 18,852 | 19,179 |
| 1918 | 302 | - | 4,419 | - | 19,348 | - | 5,793 |
| 1919 | 42 | - | 67 | - | 6,495 | - | 419 |
| 1920 | 160 | - | 711 | - | 66,871 | - | 6,125 |
| 1922 | 25 | 1 | 1,561 | - | 13,607 | - | 2,331 |
| 1923 | 251 | 6 | 6,875 | - | 85,535 | - | 11,748 |
| 1924 | 213 | 1 | 1,196 | - | 33,817 | - | 3,527 |
| 1925 | 9 | - | 372 | - | 1,979 | - | 430 |
| 1928 | 17 | 1 | 1,233 | - | 10,539 | - | 1,357 |
| 1929 | 3,000 | - | 1,896 | 321 | 184,827 | - | 12,716 |
| 1930 | 1,351 | - | 988 | 141 | 93,621 | - | 5,092 |
| 1931 | - | 4 | - | - | - | - | 75 |
| 1935 | 23 | - | 135 | 84 | 6,450 | - | 376 |
| 1936 | 5 | - | 541 | - | 5,500 | - | 672 |
| 1938 | 18 | - | 362 | - | 4,826 | - | 456 |
| 1939 | 6 | - | 134 | 19 | 639 | - | 123 |
| 1941 | 155 | - | 696 | 400 | 4,300 | 14,000 | 1,837 |
| 1942 | 100 | - | 585 | - | 52,600 | - | 3,940 |
| 1943 | 232 | - | 1,059 | - | 98,600 | - | 8,148 |
| 1944 | 24 | - | 90 | - | 9,900 | - | 856 |
| 1945 | 2,180 | 5 | 6,030 | 1,400 | 316,500 | 25,800 | 34,838 |
| 1946 | 4,109 | 8 | 13,568 | 2,500 | 856,000 | 80,000 | 114,712 |
| 1947 | 8,661 | 13 | 28,379 | 5,800 | 2,020,000 | 209,200 | 342,294 |
| 1948 | 14,401 | 17 | 36,462 | 4,800 | 2,787,800 | 140,500 | 552,341 |
| 1949 | 17,322 | 7 | 45,298 | 3,300 | 4,021,800 | 176,600 | 699,234 |
| 1950 | 20,229 | - | 46,024 | 2,100 | 5,280,000 | 60,500 | 763,482 |

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TABLE 1. - Mine production of gold, silver, copper, lead, and zinc in Pend Oreille and Stevens Counties, Wash., 1902-56, by counties and districts, in terms of recoverable metals (Con.)

BOSSBURG DISTRICT (Con.)

| Year | Ore (tons) | Gold (fine oz.) | Silver (fine oz.) | Copper (lb.) | Lead (lb.) | Zinc (lb.) | Value |
|---|---|---|---|---|---|---|---|
| 1951 | 14,932 | 1 | 35,803 | 1,300 | 3,536,300 | 90,500 | $661,005 |
| 1952 | 16,850 | 2 | 29,220 | 3,700 | 2,585,300 | 99,562 | 460,171 |
| 1953 | 3,819 | - | 4,106 | 500 | 335,000 | 56,000 | 54,185 |
| 1954 | 2,709 | 26 | 1,235 | 119,400 | 1,300 | - | 37,429 |
| Total | 116,961 | 102 | 307,288 | 145,765 | 24,785,332 | 971,514 | 3,926,068 |

CHEWELAH DISTRICT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1902 | 46 | - | 165 | 540 | 19,360 | - | 876 |
| 1903 | 133 | - | 991 | - | 43,850 | - | 2,385 |
| 1904 | 1,025 | 49 | 4,298 | 50,000 | 5,000 | - | 10,650 |
| 1905 | 3,325 | 2,149 | 12,980 | 10,641 | 21,175 | - | 54,924 |
| 1906 | 1,500 | 14 | 667 | 40,691 | - | - | 8,592 |
| 1907 | 346 | 37 | 489 | 12,000 | - | - | 3,498 |
| 1908 | 3,200 | 50 | 16,992 | 172,803 | - | - | 32,850 |
| 1909 | 2,000 | - | 12,000 | 116,000 | - | - | 21,320 |
| 1910 | 780 | 5 | 7,423 | 38,982 | - | - | 9,042 |
| 1911 | 1,322 | 23 | 32,762 | 113,122 | 77,016 | - | 35,432 |
| 1912 | 13,443 | 100 | 228,747 | 941,833 | 51,454 | - | 300,474 |
| 1913 | 16,339 | 113 | 140,043 | 779,632 | - | - | 207,778 |
| 1914 | 18,527 | 107 | 89,583 | 573,575 | 1,109 | - | 128,086 |
| 1915 | 34,150 | 83 | 93,013 | 617,394 | - | - | 156,913 |
| 1916 | 45,850 | 95 | 164,716 | 1,231,011 | 42,000 | - | 416,074 |
| 1917 | 62,436 | 74 | 150,137 | 1,212,608 | - | - | 456,263 |
| 1918 | 64,001 | 336 | 142,335 | 994,560 | - | - | 394,937 |
| 1919 | 50,698 | 59 | 139,340 | 928,692 | - | - | 330,013 |
| 1920 | 37,493 | 78 | 131,038 | 840,345 | - | - | 299,067 |
| 1921 | 1,332 | 25 | 65,716 | 246,017 | - | - | 97,967 |
| 1922 | 5,957 | 36 | 68,174 | 307,329 | - | - | 110,409 |
| 1923 | 2,139 | 23 | 50,962 | 207,279 | 2,523 | - | 72,915 |
| 1924 | 1,616 | 17 | 35,527 | 124,059 | - | - | 40,407 |
| 1925 | 355 | 7 | 23,399 | 69,539 | - | - | 26,258 |
| 1926 | 11 | - | 216 | 194 | 10,432 | - | 1,002 |
| 1927 | 218 | 5 | 18,298 | 47,891 | - | - | 16,752 |
| 1928 | 123 | 3 | 11,897 | 34,328 | - | - | 11,965 |
| 1929 | 164 | 4 | 14,249 | 41,578 | 890 | - | 15,053 |
| 1930 | 156 | 4 | 17,213 | 47,985 | - | - | 12,946 |
| 1931 | 60 | 4 | 8,964 | 23,776 | - | - | 4,847 |
| 1935 | 4 | - | 85 | 48 | 2,575 | - | 175 |
| 1937 | 26 | - | 115 | 1,777 | 1,390 | - | 386 |
| 1938 | 27 | 3 | 956 | 4,102 | - | - | 1,125 |
| 1939 | 136 | 9 | 5,149 | 13,375 | 1,851 | - | 5,288 |
| 1940 | 924 | 41 | 15,082 | 66,400 | - | - | 19,663 |
| 1941 | 1,587 | 49 | 17,962 | 110,900 | - | - | 27,574 |
| 1949 | 7 | 2 | 126 | - | 3,000 | 1,400 | 832 |
| 1950 | 7 | 2 | 106 | - | 2,800 | 1,100 | 700 |
| 1955 | 7,522 | 72 | 24,583 | 277,000 | - | - | 128,090 |
| 1956 | 7,550 | 120 | 153 | 410,000 | - | - | 178,588 |
| Total | 386,535 | 3,798 | 1,746,651 | 10,708,006 | 286,425 | 2,500 | 3,642,116 |

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TABLE 1. - Mine production of gold, silver, copper, lead, and zinc in Pend Oreille and Stevens Counties, Wash., 1902-56, by counties and districts, in terms of recoverable metals (Con.)

COLVILLE DISTRICT

| Year | Ore (tons) | Gold (fine oz.) | Silver (fine) oz.) | Copper (lb.) | Lead (lb.) | Zinc (lb.) | Value |
|---|---|---|---|---|---|---|---|
| 1902 | 40 | - | 8,000 | - | 12,000 | - | $4,900 |
| 1903 | 96 | - | 13,935 | - | 57,600 | - | 9,829 |
| 1904 | 20 | - | 1,102 | 390 | 2,575 | - | 784 |
| 1908 | 69 | - | 28 | - | 18,296 | - | 783 |
| 1909 | 41 | - | 12 | - | 12,677 | - | 551 |
| 1912 | 21 | - | 1,150 | - | 5,953 | - | 975 |
| 1913 | 7 | - | 6 | - | 5,574 | - | 249 |
| 1915 | 188 | 21 | 13,518 | - | 17,968 | - | 8,130 |
| 1916 | 33 | - | 366 | - | 9,544 | - | 900 |
| 1917 | 44 | 33 | 43 | - | 767 | - | 784 |
| 1921 | 60 | 2 | 4,638 | - | 16,349 | - | 5,420 |
| 1922 | 39 | 5 | 18,671 | 970 | 8,087 | - | 19,341 |
| 1923 | 209 | 21 | 14,384 | 422 | 32,588 | - | 14,575 |
| 1924 | 713 | 101 | 81,582 | 102 | 156,553 | - | 69,277 |
| 1925 | 957 | 55 | 72,046 | - | 192,669 | 37,264 | 70,726 |
| 1926 | 928 | 79 | 87,074 | 2,077 | 219,664 | 51,304 | 77,686 |
| 1927 | 9 | - | 208 | - | 5,735 | - | 483 |
| 1928 | 4 | - | 6 | - | 3,276 | - | 194 |
| 1929 | 59 | 1 | 3,014 | 10 | 11,881 | 22,058 | 3,834 |
| 1934 | 90 | 10 | 7,057 | 187 | 14,271 | - | 5,445 |
| 1935 | 84 | 8 | 3,833 | 374 | 9,900 | 2,159 | 3,557 |
| 1936 | 109 | - | 5,756 | - | 12,413 | 28,780 | 6,468 |
| 1937 | 107 | - | 3,563 | - | 11,661 | 33,400 | 5,615 |
| 1938 | 46 | 4 | 1,321 | 143 | 4,413 | - | 1,211 |
| 1939 | 43 | 16 | 1,186 | 96 | 4,447 | 1,442 | 1,659 |
| 1940 | 64 | 5 | 2,766 | - | 5,900 | - | 2,437 |
| 1941 | 96 | - | 31 | - | 9,600 | 18,000 | 1,919 |
| 1944 | 659 | 3 | 1,665 | - | 18,900 | 97,000 | 13,859 |
| 1945 | 45 | - | 31 | - | 200 | 15,800 | 1,856 |
| 1948 | 27 | - | 21 | - | 6,700 | 800 | 1,324 |
| 1949 | 19 | - | 10 | - | 400 | 2,000 | 320 |
| 1951 | 223 | 2 | 3,810 | - | 12,200 | 15,700 | 8,485 |
| 1952 | 650 | 1 | 4,345 | - | 29,000 | 22,512 | 12,373 |
| 1953 | 903 | 3 | 6,574 | 600 | 27,600 | 55,600 | 16,237 |
| 1954 | 50 | - | 715 | - | 3,400 | 1,600 | 1,286 |
| Total | 6,752 | 370 | 362,467 | 5,371 | 960,761 | 405,419 | 373,472 |

DEER TRAIL DISTRICT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1903 | 406 | - | 67,915 | - | 39,062 | - | 38,043 |
| 1904 | 10 | - | 500 | - | - | - | 285 |
| 1905 | 64 | - | 7,119 | 1,603 | 4,492 | - | 4,761 |
| 1906 | 20 | - | 2,000 | - | 2,000 | - | 1,454 |
| 1907 | 1,706 | - | 12,417 | - | 467,372 | - | 32,966 |
| 1908 | 350 | 21 | 26,693 | 705 | 6,785 | - | 14,974 |
| 1909 | 600 | - | 3,000 | - | 264,000 | - | 12,912 |
| 1911 | 27 | - | 854 | - | 6,761 | - | 757 |
| 1912 | 30 | 1 | 1,770 | - | 2,401 | - | 1,218 |
| 1913 | 27 | - | 2,183 | - | 1,596 | - | 1,388 |

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TABLE 1. - Mine production of gold, silver, copper, lead, and zinc in Pend Oreille and Stevens Counties, Wash., 1902-56, by counties and districts, in terms of recoverable metals (Con.)

DEER TRAIL DISTRICT (Con.)

| Year | Ore (tons) | Gold (fine oz.) | Silver (fine oz.) | Copper (lb.) | Lead (lb.) | Zinc (lb.) | Value |
|---|---|---|---|---|---|---|---|
| 1914 | 8 | - | 123 | - | 2,783 | - | 177 |
| 1916 | 4 | - | 519 | - | 614 | - | 385 |
| 1917 | 913 | 16 | 5,098 | 121,372 | - | - | 37,662 |
| 1940 | 219 | 1 | 3,240 | 1,000 | 2,000 | - | 2,552 |
| 1941 | 21 | 3 | 734 | - | 6,300 | - | 986 |
| 1942 | 1,859 | 7 | 8,145 | 1,700 | 167,300 | 186,000 | 34,750 |
| 1943 | 1,708 | 4 | 5,175 | - | 106,400 | 28,000 | 14,824 |
| 1944 | 1,000 | 2 | 3,015 | 800 | 73,200 | 49,000 | 13,764 |
| 1946 | 3,170 | 10 | 7,240 | 500 | 267,000 | 51,000 | 41,606 |
| 1947 | 5,405 | 23 | 26,831 | 4,000 | 434,500 | 232,000 | 115,175 |
| 1948 | 335 | 1 | 3,718 | 500 | 19,000 | 12,600 | 8,585 |
| 1950 | 1 | - | 73 | - | 200 | 200 | 121 |
| 1955 | 1,300 | - | 103 | 45,400 | - | - | 17,027 |
| Total | 19,183 | 89 | 188,465 | 177,580 | 1,873,766 | 558,800 | 396,372 |

KETTLE FALLS DISTRICT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1903 | 38 | - | 208 | 170 | - | - | $136 |
| 1904 | 69 | 19 | 36 | 3,930 | - | - | 970 |
| 1905 | 3,567 | 402 | 417 | 3,205 | - | - | 9,054 |
| 1906 | 30 | 48 | 200 | - | - | - | 1,134 |
| 1909 | 82 | 152 | 382 | - | - | - | 3,347 |
| 1910 | 42 | 32 | 125 | 2,945 | - | - | 1,103 |
| 1911 | 49 | 95 | 298 | - | - | - | 2,122 |
| 1912 | 111 | 135 | 155 | - | - | - | 2,885 |
| 1913 | 19 | 70 | 264 | - | - | - | 1,607 |
| 1914 | 56 | 148 | 814 | 2,337 | - | - | 3,821 |
| 1915 | 21 | 48 | 151 | - | - | - | 1,072 |
| 1916 | 126 | 3 | 2,878 | 288 | 246 | - | 2,050 |
| 1917 | 17 | 11 | 87 | - | - | - | 299 |
| 1918 | 38 | 3 | 647 | - | 2,642 | - | 897 |
| 1919 | 1 | 3 | 9 | - | - | - | 65 |
| 1920 | 7 | 15 | 134 | - | 18 | - | 457 |
| 1924 | 61 | 1 | 1,153 | 872 | 3,713 | - | 1,199 |
| 1931 | 38 | 42 | 146 | - | - | - | 906 |
| 1932 | 62 | 42 | 245 | - | - | - | 941 |
| 1933 | 3 | 3 | 509 | - | - | - | 231 |
| 1934 | 640 | 16 | 5,437 | 1,913 | 9,216 | - | 4,574 |
| 1935 | 705 | 7 | 5,472 | 2,265 | 13,450 | - | 4,911 |
| 1936 | 207 | 5 | 1,326 | 500 | 1,348 | - | 1,310 |
| 1937 | 225 | - | 5,479 | 1,694 | 2,712 | - | 4,603 |
| 1938 | 1,725 | 18 | 22,275 | 8,755 | 18,826 | - | 16,754 |
| 1939 | 448 | 79 | 2,634 | 1,327 | 2,064 | - | 4,788 |
| 1940 | 68 | 16 | 668 | 600 | 400 | - | 1,123 |
| 1941 | 1 | - | 76 | - | - | - | 54 |
| 1942 | 3 | - | 436 | 200 | 700 | - | 381 |
| 1947 | 130 | 58 | 221 | - | - | - | 2,230 |
| 1949 | 841 | - | 716 | 500 | 600 | 200 | 867 |
| 1950 | 150 | 13 | 53 | - | - | - | 503 |
| 1953 | 1,094 | 5 | 464 | 35,000 | 5,400 | - | 11,347 |
| Total | 10,674 | 1,489 | 54,115 | 66,501 | 61,335 | 200 | 87,741 |

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TABLE 1. - Mine production of gold, silver, copper, lead, and zinc in Pend Oreille and Stevens Counties, Wash., 1902-56, by counties and districts, in terms of recoverable metals (Con.)

NORTHPORT DISTRICT

| Year | Ore (tons) | Gold (fine oz.) | Silver (fine oz.) | Copper (lb.) | Lead (lb.) | Zinc (lb.) | Value |
|---|---|---|---|---|---|---|---|
| 1902 | 35 | - | 4,322 | - | 1,600 | - | $2,309 |
| 1904 | 1,696 | - | 12,714 | - | 1,638,540 | - | 72,637 |
| 1905 | 560 | - | - | - | 558,000 | - | 26,226 |
| 1906 | 890 | - | 534 | - | 890,000 | - | 51,088 |
| 1907 | 463 | - | - | - | 352,663 | - | 18,691 |
| 1908 | 748 | - | - | - | 822,800 | - | 34,558 |
| 1909 | 250 | - | 217 | - | 12,000 | - | 629 |
| 1910 | 810 | - | 214 | - | 1,007,292 | - | 44,438 |
| 1911 | 159 | - | - | - | 200,277 | - | 9,012 |
| 1913 | 7 | - | 780 | - | 1,174 | - | 523 |
| 1915 | 64 | - | 593 | 265 | 39,282 | - | 2,207 |
| 1916 | 10,223 | - | 952 | - | 5,065,700 | 832,412 | 461,702 |
| 1917 | 15,789 | 3 | 3,248 | 535 | 9,465,046 | - | 816,890 |
| 1918 | 7,564 | - | 2,408 | 642 | 5,020,838 | - | 359,046 |
| 1919 | 2,857 | - | 1,123 | - | 2,053,697 | - | 110,104 |
| 1920 | 9,119 | - | 1,811 | - | 5,685,681 | 426,496 | 491,375 |
| 1921 | 1,075 | - | 405 | - | 99,048 | 449,360 | 27,330 |
| 1922 | 2,489 | - | 2,418 | 81 | 1,067,668 | 1,228,229 | 131,165 |
| 1923 | 6,298 | - | 1,676 | 91 | 2,123,262 | 3,024,535 | 355,685 |
| 1924 | 5,913 | - | 1,551 | - | 2,464,301 | 910,890 | 257,391 |
| 1925 | 10,834 | 5 | 3,537 | 205 | 4,435,427 | 1,163,574 | 476,904 |
| 1926 | 9,569 | 1 | 3,370 | 66 | 3,968,321 | 927,565 | 389,165 |
| 1927 | 2,810 | - | 991 | 270 | 650,224 | 343,134 | 63,521 |
| 1928 | 1,284 | - | 3,068 | 583 | 1,006,732 | 85,318 | 65,490 |
| 1929 | 204 | - | 169 | 94 | 151,725 | 33,712 | 11,891 |
| 1930 | 589 | - | 352 | 424 | 507,855 | - | 25,588 |
| 1931 | 241 | 2 | 165 | 199 | 255,573 | - | 9,556 |
| 1932 | 333 | 3 | 241 | - | 475,667 | - | 14,338 |
| 1933 | 227 | - | 511 | 77 | 235,513 | - | 8,901 |
| 1934 | 64 | - | 1,284 | 175 | 77,243 | - | 3,702 |
| 1935 | 160 | - | 530 | 145 | 160,150 | - | 6,799 |
| 1936 | 148 | 22 | 297 | 1,250 | 114,348 | - | 6,403 |
| 1937 | 454 | - | 1,713 | 149 | 323,576 | - | 20,434 |
| 1938 | 483 | - | 2,076 | 857 | 467,261 | - | 22,920 |
| 1939 | 391 | - | 775 | 77 | 317,914 | - | 15,476 |
| 1940 | 92 | - | 128 | - | 93,300 | - | 4,756 |
| 1941 | 1,983 | 10 | 1,274 | 1,000 | 142,800 | 206,000 | 24,964 |
| 1942 | 12,264 | 110 | 7,875 | 11,100 | 374,800 | 1,370,000 | 163,315 |
| 1943 | 19,646 | 263 | 9,512 | 17,900 | 362,000 | 1,828,000 | 242,870 |
| 1944 | 31,553 | 377 | 12,060 | 29,200 | 466,000 | 2,876,000 | 390,857 |
| 1945 | 29,483 | - | 606 | - | 56,300 | 2,820,000 | 329,642 |
| 1946 | 39,634 | 6 | 708 | 4,000 | 78,000 | 3,580,000 | 446,692 |
| 1947 | 51,030 | 16 | 2,822 | 4,200 | 1,015,500 | 5,576,200 | 791,491 |
| 1948 | 54,734 | 10 | 4,791 | 2,000 | 2,851,700 | 6,542,100 | 1,385,673 |
| 1949 | 49,944 | 12 | 2,454 | - | 683,200 | 2,824,300 | 460,800 |
| 1950 | 62,695 | - | 1,717 | - | 474,000 | 2,607,800 | 435,852 |
| 1951 | 107,208 | - | 4,551 | 1,200 | 1,873,100 | 6,992,300 | 1,601,054 |
| 1952 | 134,670 | 6 | 6,754 | 900 | 2,705,700 | 9,290,736 | 1,984,421 |
| 1953 | 406,230 | 69 | 18,558 | 13,900 | 4,330,000 | 29,888,400 | 4,027,596 |

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TABLE 1. - Mine production of gold, silver, copper, lead, and zinc in Pend Oreille and Stevens Counties, Wash., 1902-56, by counties and districts, in terms of recoverable metals (Con.)

NORTHPORT DISTRICT (Con.)

| Year | Ore (tons) | Gold (fine oz.) | Silver (fine oz.) | Copper (lb.) | Lead (lb.) | Zinc (lb.) | Value |
|---|---|---|---|---|---|---|---|
| 1954 | 396,995 | 30 | 13,732 | 16,600 | 2,549,300 | 26,592,400 | 3,239,608 |
| 1955 | 481,473 | 24 | 19,179 | 35,600 | 4,424,000 | 35,334,000 | 5,036,735 |
| 1956 | 452,553 | 13 | 22,150 | 20,000 | 4,170,000 | 25,450,000 | 4,170,342 |
| Total | 2,426,987 | 982 | 182,916 | 163,785 | 78,366,098 | 173,204,061 | 29,150,762 |

ORIENT DISTRICT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1904 | 510 | 493 | 518 | - | - | - | $10,495 |
| 1905 | 4,350 | 5,473 | 2,369 | - | - | - | 114,567 |
| 1906 | 9,774 | 3,702 | 2,026 | 31,622 | - | - | 84,005 |
| 1907 | 20,580 | 7,189 | 3,929 | 53,044 | - | - | 161,810 |
| 1908 | 26,794 | 8,824 | 4,336 | 71,106 | - | - | 194,079 |
| 1909 | 19,963 | 5,691 | 5,933 | 60,329 | - | - | 128,576 |
| 1910 | 16,121 | 1,423 | 2,022 | 43,136 | - | - | 36,007 |
| 1911 | 23,192 | 1,192 | 889 | 39,990 | - | - | 30,118 |
| 1912 | 23,304 | 916 | 435 | 65,243 | - | - | 29,968 |
| 1913 | 29,159 | 952 | 2,259 | 114,658 | 8,254 | - | 39,180 |
| 1914 | 5,843 | 320 | 472 | 23,907 | - | - | 10,056 |
| 1915 | 28 | 16 | 55 | - | - | - | 359 |
| 1916 | 10,895 | 327 | 582 | 50,021 | - | - | 19,449 |
| 1917 | 486 | 34 | 55 | 2,007 | 9,969 | - | 2,160 |
| 1918 | 21 | 38 | 19 | - | - | - | 804 |
| 1920 | 11 | 4 | 46 | - | 839 | - | 199 |
| 1926 | 50 | 37 | 33 | - | - | - | 793 |
| 1928 | 132 | 32 | 28 | - | - | - | 680 |
| 1929 | 74 | 34 | 44 | 169 | - | - | 752 |
| 1930 | 1 | 2 | 2 | - | - | - | 42 |
| 1931 | 47 | 24 | 28 | - | - | - | 504 |
| 1932 | 367 | 136 | 170 | - | - | - | 2,854 |
| 1933 | 33 | 12 | 23 | 140 | - | - | 267 |
| 1934 | 5,173 | 1,657 | 1,672 | 75 | 270 | - | 59,005 |
| 1935 | 2,556 | 1,180 | 903 | 60 | 575 | - | 41,991 |
| 1936 | 120 | 85 | 62 | - | 3,087 | - | 3,151 |
| 1937 | 4,688 | 767 | 490 | - | - | - | 27,224 |
| 1938 | 11,718 | 1,755 | 1,007 | - | - | - | 62,076 |
| 1939 | 3 | 17 | 3 | 29 | 21 | - | 601 |
| 1940 | 5,192 | 785 | 485 | - | 100 | - | 27,825 |
| 1941 | 12,028 | 1,345 | 796 | - | - | - | 47,641 |
| 1942 | 3,780 | 595 | 329 | - | - | - | 21,059 |
| Total | 236,993 | 45,057 | 32,020 | 555,536 | 23,115 | - | 1,158,297 |

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TABLE 1. - Mine production of gold, silver, copper, lead, and zinc in Pend Oreille and Stevens Counties, Wash., 1902-56, by counties and districts, in terms of recoverable metals (Con.)

SPRINGDALE DISTRICT

| Year | Ore (tons) | Gold (fine oz.) | Silver (fine oz.) | Copper (lb.) | Lead (lb.) | Zinc (lb.) | Value |
|---|---|---|---|---|---|---|---|
| 1902 | 1,641 | 9 | 236,263 | - | 73,808 | - | $119,389 |
| 1903 | 170 | 121 | 9,259 | 18,868 | - | - | 10,000 |
| 1904 | 1,255 | - | 49,883 | 140,000 | 114,194 | - | 50,878 |
| 1906 | 30 | - | 900 | - | - | - | 603 |
| 1909 | 78 | - | - | 39,780 | - | - | 5,171 |
| 1913 | 15 | - | 69 | 3,177 | - | - | 535 |
| 1914 | 20 | - | 65 | 3,177 | - | - | 458 |
| 1916 | 833 | 9 | 124 | 190,157 | - | - | 47,033 |
| 1917 | 1,710 | 10 | 151 | 304,026 | - | - | 83,331 |
| 1918 | 2,290 | 20 | 18,841 | 173,878 | 34,324 | - | 64,631 |
| 1919 | 5,721 | 7 | 16,023 | 180,679 | 26,551 | - | 53,123 |
| 1920 | 100 | - | 297 | 7,513 | - | - | 1,706 |
| 1921 | 85 | - | 4,430 | - | 2,854 | - | 4,558 |
| 1922 | 2,587 | 7 | 12,284 | 616 | 257,966 | - | 26,707 |
| 1923 | 4,530 | 16 | 13,663 | 783 | 583,891 | - | 52,524 |
| 1924 | 3,018 | 11 | 11,922 | - | 400,863 | - | 40,286 |
| 1925 | 2,664 | 10 | 8,852 | - | 237,844 | - | 27,036 |
| 1927 | 230 | 2 | 455 | 21,714 | 6,829 | - | 3,584 |
| 1928 | 585 | 2 | 6,166 | 38,954 | 7,780 | - | 9,710 |
| 1929 | 295 | 1 | 3,226 | 43,931 | 2,492 | - | 9,639 |
| 1930 | 10 | - | 899 | 95 | 1,485 | - | 436 |
| 1934 | 1,203 | - | 2,274 | 100 | 1,189 | - | 1,538 |
| 1935 | 2,256 | 1 | 6,962 | 349 | 4,600 | - | 5,266 |
| 1937 | 310 | - | 2,861 | 8 | 20,610 | 8,000 | 3,950 |
| 1938 | 163 | 1 | 3,564 | 143 | 3,087 | - | 2,495 |
| 1939 | 2,163 | 11 | 25,905 | 3,356 | 37,256 | - | 20,069 |
| 1940 | 6 | - | 3 | 1,200 | - | - | 138 |
| 1941 | 1,526 | 2 | 578 | 106,000 | - | - | 12,989 |
| 1942 | 392 | - | 90 | 27,000 | - | - | 3,331 |
| 1943 | 397 | - | 84 | 25,700 | - | - | 3,401 |
| 1951 | 5 | - | 2 | 200 | - | - | 50 |
| 1952 | 69 | - | - | 2,000 | - | - | 484 |
| Total | 36,357 | 240 | 436,095 | 1,333,404 | 1,817,623 | 8,000 | 665,049 |

VALLEY DISTRICT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1904 | 11 | - | 1,175 | - | - | - | 670 |
| 1908 | 31 | - | 1,251 | 3,818 | 3,262 | - | 1,319 |
| 1909 | 20 | 20 | 25 | 4,037 | - | - | 951 |
| 1916 | 68 | - | 1,282 | 6,880 | 3,865 | - | 2,808 |
| 1917 | 69 | 1 | 11 | 6,942 | - | - | 1,926 |
| 1918 | 16 | - | - | 1,408 | - | - | 348 |
| Total | 215 | 21 | 3,744 | 23,085 | 7,127 | - | 8,022 |

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TABLE 2. - Mine production of gold, silver, copper, lead, and zinc, 1902-56, by mines, in terms of recoverable metals

METALINE DISTRICT, PEND OREILLE COUNTY

| Year | Mine and operator | Ore (tons) | Gold (oz.) | Silver (oz.) | Copper (lb.) | Lead (lb.) | Zinc (lb.) | Remarks |
|---|---|---|---|---|---|---|---|---|
| | BELLA MAY (METALINE) | | | | | | | |
| 1906 | Spokane Lead Mines Co. | 26 | | 45 | | 34,100 | | 250-ft. tunnel. |
| 1917 | O. DeCamp | 30 | | 59 | | 34,811 | | |
| 1918 | Diamond R. Mining Co. | 157 | | 236 | | 163,536 | | 50-ton concentrator being constructed. |
| 1923 | O. DeCamp | 33 | | 46 | | 29,945 | | |
| 1924 | John Sawbridge | 749 | | 1,093 | | 732,613 | | 250 ft. of heading following streaks of galena. |
| 1925 | do. | 289 | | 460 | | 231,378 | | |
| 1926 | do. | 160 | | 248 | 117 | 128,150 | | |
| 1937 | American Zinc, Lead & Smelting Co. | 7,499 | | | | 116,500 | 728,400 | |
| 1938 | do. | 35,064 | | | | 605,500 | 4,206,000 | Added additional accessory equipment. |
| 1939 | Metaline Mining & Leasing Co. | 17,696 | | | | 276,404 | 1,705,000 | |
| 1940 | do. | 24,883 | | | | 446,300 | 2,852,000 | |
| 1941 | do. | 65,157 | | 1,375 | | 1,704,492 | 5,877,179 | |
| 1942 | do. | 68,280 | | | | 912,449 | 6,162,400 | |
| 1943 | do. | 46,322 | | | | 587,104 | 3,594,000 | |
| 1944 | do. | 49,486 | | 2,664 | | 2,047,800 | 3,664,200 | |
| 1945 | do. | 40,317 | | 1,800 | | 1,280,000 | 3,446,300 | |
| 1946 | do. | 36,925 | | 765 | | 542,000 | 2,300,000 | |
| 1947 | do. | 29,534 | | 800 | | 420,000 | 1,902,250 | Ceased production. |
| 1949 | do. | 5,317 | | 28 | | 18,800 | 426,370 | |
| 1951 | do. | 3,556 | | 91 | 85 | 34,854 | 80,848 | |
| | Total | 431,480 | | 9,710 | 202 | 10,346,736 | 36,944,947 | |
| | BUZZELL | | | | | | | |
| 1923 | Vern Lakin | 1 | | | | 1,288 | | |
| 1925 | do. | 3 | | 2 | | 2,382 | | |
| 1926 | do. | 18 | | 9 | | 12,590 | | Includes Lucky Strike and 6 other claims. |
| 1932 | Charles Singer | 20 | | 10 | 36 | 14,353 | | |
| | Total | 42 | | 21 | 36 | 30,613 | | |
| | CLARK (SAME AS JOSEPHINE) | | | | | | | |
| 1915 | The Lead-Zinc Co. | 3,111 | | | | | 244,906 | 400-ft. tunnel and glory hole. |
| 1916 | do. | 15,145 | | 85 | | 37,695 | 861,322 | Glory hole, shafts, drifts; oxidized ore to 40 ft. |
| | Total | 18,256 | | 85 | | 37,695 | 1,106,228 | |
| | CLIFF (HANLEY) | | | | | | | |
| 1925 | C. Hanley | 4 | | 9 | | 4,333 | | 2 shafts 90 ft.; 60-ft. tunnel. |
| 1942 | H. Sanborn | | | 1 | | 598 | | Shipped ore mined in 1925. |
| 1944 | Columbia Lead & Zinc Mining Co. | | | | | 593 | 38,600 | |
| | Total | 4 | | 10 | | 5,524 | 38,600 | |
| | DIAMOND R | | | | | | | |
| 1927 | H. Wilson | 40 | | 44 | | 18,489 | | |
| | DOHERTY | | | | | | | |
| 1925 | H. Morris | 5 | | 10 | | 4,405 | | |
| | GRANDVIEW | | | | | | | |
| 1924 | J. McGinn | 217 | | 198 | | 136,307 | | |
| 1925 | Grandview Mining Co. | 547 | | 459 | | 456,905 | | |
| 1926 | Grandview Lead Co. | 215 | | 136 | | 86,505 | | |
| 1927 | Grandview Mines | 1,246 | | 181 | | 111,210 | 68,558 | |
| 1929 | do. | 50,600 | | 1,078 | 4,326 | 649,448 | 2,014,250 | 200-ton flotation plant, using oil flotation. |
| 1930 | do. | 1,200 | | 150 | 75 | 126,720 | 38,502 | Shipped to Bunker Hill smelter. |



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TABLE 2. - Mine production of gold, silver, copper, lead, and zinc, 1902-56, by mines, in terms of recoverable metals (Con.)

METALINE DISTRICT, PEND OREILLE COUNTY (Con.)

| Year | Mine and operator | Ore (tons) | Gold (oz.) | Silver (oz.) | Copper (lb.) | Lead (lb.) | Zinc (lb.) | Remarks |
|---|---|---|---|---|---|---|---|---|
| | GRANDVIEW (Con.) | | | | | | | |
| 1940 | American Zinc, Lead, & Smelting Co. | 15,757 | | | | 383,200 | 1,476,000 | |
| 1941 | do. | 76,049 | | 1,493 | | 2,201,641 | 6,567,653 | |
| 1942 | do. | 95,131 | | | | 3,097,500 | 6,569,000 | |
| 1943 | do. | 81,881 | | 3,481 | | 4,049,600 | 5,175,000 | |
| 1944 | do. | 97,543 | | 5,744 | | 4,436,000 | 6,809,500 | |
| 1945 | do. | 93,871 | | 4,990 | | 3,306,000 | 6,696,000 | |
| 1946 | do. | 88,617 | | 3,560 | 13,000 | 2,410,300 | 6,818,000 | |
| 1947 | do. | 148,786 | | 5,100 | | 3,245,000 | 11,336,600 | |
| 1948 | do. | 89,831 | | 2,150 | | 2,750,000 | 6,505,000 | |
| 1949 | do. | 51,690 | | 2,000 | | 1,493,300 | 4,127,000 | |
| 1950 | do. | 231,031 | | 11,431 | | 8,762,514 | 13,289,552 | |
| 1951 | do. | 231,839 | | 6,679 | 23,973 | 4,422,798 | 13,015,177 | |
| 1952 | do. | 239,366 | | 9,027 | 30,790 | 8,179,305 | 13,002,364 | |
| 1953 | do. | 234,250 | | 7,350 | 29,119 | 5,961,762 | 12,616,752 | |
| 1954 | do. | 113,502 | | 3,062 | 11,600 | 2,357,200 | 4,828,900 | |
| 1955 | do. | 195,716 | | 3,577 | 18,300 | 2,823,500 | 8,214,500 | Operating 750-ton flotation mill. |
| 1956 | do. | 209,089 | | 4,415 | 21,800 | 2,947,300 | 10,176,400 | 10-12 year reserve available. |
| | Total | 2,347,974 | | 76,261 | 152,983 | 64,394,015 | 139,344,708 | |
| | K. K. | | | | | | | |
| 1925 | C. King | 23 | | 41 | | 20,308 | | |
| | LEAD HILL | | | | | | | |
| 1937 | C. Bostrom & I. Luhr | 27 | | 64 | | 33,259 | | 1,400-ft. tunnel; open cuts and stripping. |
| 1940 | C. Bostrom | 6 | | 22 | | 7,300 | | |
| 1951 | American Zinc, Lead & Smelting Co. | 1,232 | | 83 | | 72,400 | 7,121 | |
| 1952 | do. | 7,448 | | | | 247,000 | 208,000 | |
| 1956 | do. | 2,451 | | | | 45,800 | 181,300 | |
| | Total | 11,164 | | 169 | | 405,759 | 396,421 | |
| | LEAD KING | | | | | | | |
| 1917 | Lead King Mining Co. | 30 | | 30 | | 14,870 | 1,105 | Sorted ore from open cut shipped to East Helena, Mont. |
| 1925 | do. | 18 | | 14 | | 13,356 | | |
| 1926 | do. | 107 | | 34 | | 26,210 | 14,273 | 40 ft. of open cut and stripping. |
| | Total | 155 | | 78 | | 54,436 | 15,378 | |
| | LEAD QUEEN | | | | | | | |
| 1917 | Lead Queen Mining & Milling Co. | 14 | | 33 | | 18,416 | | |
| | LONE STAR | | | | | | | |
| 1926 | B. Russell | 21 | | | | 4,075 | 1,700 | |
| | LUCKY STRIKE | | | | | | | |
| 1952 | W. Curtis | 3 | | 6 | | 705 | | |
| | METALINE CONSOLIDATED | | | | | | | |
| 1917 | Metaline Consolidated Mining Co. | 30 | | 35 | | 15,640 | | |
| | METALINE ORIOLE | | | | | | | |
| 1911 | Metaline Oriole Mining Co. | 51 | 9 | 1,602 | 411 | 11,982 | 20,590 | Vertical shaft, 135 ft.; drifts, 600 ft.; adit, 500 ft. |
| 1917 | do. | 36 | 8 | 1,250 | 490 | 9,026 | 5,419 | 1 car of hand sorted ore. |
| | Total | 87 | 17 | 2,852 | 901 | 21,008 | 26,009 | |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1926 | MOHAWK | 9 | | 10 | | 3,404 | | |
| | OLD GRANDVIEW MILLSITE | | | | | | | |
| 1948 | S. Rogich | 6 | | 16 | | 7,115 | 336 | Old tailings. |
| | OLD PEND OREILLE MILLSITE | | | | | | | |
| 1948 | W. Nelson | 10 | | 19 | | 10,520 | 1,425 | Old tailings. |
| | ORIOLE | | | | | | | |
| 1926 | H. Schultz | 91 | 5 | 1,281 | | 14,161 | 18,848 | |
| 1953 | Betchart-Dressel | 672 | 32 | 3,003 | 1,042 | 25,603 | 38,088 | |
| 1954 | do. | 70 | 17 | 550 | 200 | 6,800 | 6,500 | |
| | Total | 833 | 54 | 4,834 | 1,242 | 46,564 | 63,436 | |
| | PEND OREILLE (JOSEPHINE) | | | | | | | |
| 1917 | The Lead-Zinc Co. | 14,953 | | 97 | | 36,876 | 1,171,296 | |
| 1918 | do. | 55 | | | | 1,202 | 38,873 | |
| 1925 | L. Larsen | 25 | | 48 | | 24,585 | | |
| 1926 | B. Bealty | 17 | | 22 | | 14,730 | | |
| 1927 | Pend Oreille Lead-Zinc Co. | 32,577 | 6 | 2,134 | 1,075 | 37,788 | 868,018 | 9,537 tons of old tailings. |
| 1929 | do. | 320 | 8 | 1,172 | 436 | 6,510 | 47,324 | |
| 1930 | Pend Oreille Mines & Metals Co. | 6,000 | | 870 | 240 | 407,650 | 665,280 | |
| 1931 | do. | 80,968 | | 4,595 | 2,670 | 2,514,977 | 9,947,495 | |
| 1932 | do. | 33,423 | | 2,589 | 3,360 | 1,349,713 | 4,489,334 | |
| 1933 | do. | 48,479 | | 3,260 | 5,062 | 1,443,783 | 6,738,169 | |
| 1934 | do. | 28,322 | | 1,151 | 2,575 | 473,649 | 3,852,419 | |
| 1936 | do. | 76,060 | | 3,317 | 6,011 | 1,540,847 | 8,777,220 | |
| 1937 | do. | 98,500 | | 10,081 | | 5,137,858 | 7,462,200 | |
| 1938 | do. | 214,120 | | 14,584 | | 7,413,000 | 18,598,000 | |
| 1939 | do. | 241,624 | | 11,603 | | 6,472,000 | 18,555,558 | |
| 1940 | do. | 232,587 | | 8,587 | | 4,152,700 | 18,792,000 | |
| 1941 | do. | 219,835 | | 7,948 | | 3,731,449 | 15,958,000 | |
| 1942 | do. | 234,215 | | 9,622 | | 5,091,141 | 14,508,700 | |
| 1943 | do. | 183,042 | | 3,848 | | 4,524,200 | 9,815,000 | |
| 1944 | do. | 157,638 | | 7,172 | | 4,070,593 | 7,959,000 | |
| 1945 | do. | 119,696 | | 4,400 | | 2,425,000 | 5,445,000 | |
| 1946 | do. | 122,106 | | 3,050 | | 1,496,200 | 6,252,700 | |
| 1947 | do. | 116,695 | | 4,733 | 4,300 | 3,235,000 | 6,270,000 | |
| 1948 | do. | 133,755 | | 7,377 | | 5,825,500 | 5,462,188 | |
| 1949 | do. | 186,955 | | 9,365 | 16,475 | 6,547,000 | 8,438,750 | |
| 1950 | do. | 186,197 | | 9,001 | 15,347 | 6,126,500 | 8,774,470 | |
| 1951 | do. | 273,580 | 30 | 16,041 | 13,721 | 5,937,458 | 12,402,138 | |
| 1952 | do. | 336,205 | 22 | 20,882 | 24,220 | 9,721,198 | 15,604,647 | |
| 1953 | do. | 500,042 | 17 | 23,719 | 34,056 | 11,400,566 | 21,715,290 | |
| 1954 | do. | 482,055 | 3 | 19,000 | 8,200 | 14,946,000 | 12,890,600 | Improved mining methods; milling capacity 900,000-1,000,000 tons annually. |
| 1955 | do. | 503,391 | 9 | 22,752 | 33,700 | 13,372,500 | 15,101,500 | |
| 1956 | do. | 587,891 | | 24,206 | 30,200 | 15,884,400 | 14,689,200 | Developing ore output to 750-800 thousand tons. |
| | Total | 5,451,328 | 95 | 257,226 | 201,648 | 145,362,573 | 281,290,369 | |
| | POORMAN | | | | | | | |
| 1937 | E. Miller | 2 | | 2,380 | 14 | 180 | | |
| | ROCKY CREEK | | | | | | | |
| 1953 | Cowan & Flannigan | 3 | 1 | 502 | | 640 | 715 | |
| 1956 | G. Jensen | 6 | 2 | 736 | | 600 | 1,000 | |
| | Total | 9 | 3 | 1,238 | | 1,240 | 1,715 | |

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TABLE 2. - Mine production of gold, silver, copper, lead, and zinc, 1902-56, by mines, in terms of recoverable metals (Con.)

METALINE DISTRICT, PEND OREILLE COUNTY (Con.)

| Year | Mine and operator | Ore (tons) | Gold (oz.) | Silver (oz.) | Copper (lb.) | Lead (lb.) | Zinc (lb.) | Remarks |
|---|---|---|---|---|---|---|---|---|
| | SAMPSON | | | | | | | |
| 1926 | T. Raymond | 1 | | 2 | | 876 | | |
| | SHALLENBERGER GROUP | | | | | | | |
| 1918 | J. Doherty | 13 | | 18 | | 14,475 | | |
| | STERLING | | | | | | | |
| 1918 | Sterling Silver-Lead Co. | 20 | | 7 | | 5,521 | | 220-ft. tunnel, 82-ft. crosscuts, |
| 1926 | O. DeCamp & A. Dressel | 71 | | - | | 8,490 | | 250-ft. open cut. |
| | Total | 91 | | 7 | | 14,011 | 27,570 | |
| | SULLIVAN | | | | | | | |
| 1926 | Pend Oreille Lead-Zinc Co. | 7 | | 16 | | 5,707 | | Production included with Pend Oreille (Josephine) after 1930. |
| 1927 | do. | 685 | 5 | 554 | | 123,374 | | |
| | Total | 692 | 5 | 570 | | 129,081 | | |
| | VELVET | | | | | | | |
| 1942 | H. Sanborn | 3 | | 7 | | 4,344 | | 70-ft. drifts and open cuts. |
| | Z CANYON GROUP | | | | | | | |
| 1926 | Pend Oreille Lead-Zinc Co. - Duplex Mining Co. | 96 | | 60 | | 22,033 | 3,094 | |
| | BEAD LAKE | | | | | | | |
| 1923 | Bead Lake Gold & Copper Co. | 850 | 2 | 463 | 10,091 | 22,497 | | 100-ton concentrator. |
| | EAGLE | | | | | | | |
| 1910 | A. Reis | 1 | | 2 | | 29 | | Shipped to Tacoma smelter. |
| 1917 | do. | 3 | | 48 | | 685 | | Assessment work, ore taken out at earlier date. |
| 1919 | do. | 15 | 5 | 288 | 399 | | | |
| 1922 | do. | 2 | | 25 | 15 | 259 | | |
| | Total | 21 | 5 | 363 | 414 | 973 | | |
| | GRAY GOOSE | | | | | | | |
| 1923 | Gray Goose Mines | 11 | | 195 | 47 | 7,113 | | |

BOSSBURG (CLUGSTON CREEK) DISTRICT, STEVENS COUNTY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | BIG CHIEF | | | | | | | |
| 1949 | Crater Mining Co. | 21 | | 21 | | 8,792 | | |
| 1953 | A. E. Tesdahl | 199 | | 161 | 139 | 15,803 | 5,545 | |
| | Total | 220 | | 182 | 139 | 24,595 | 5,545 | |
| | BONANZA | | | | | | | |
| 1907 | Deer Trail Consolidated Mining Co. | 837 | | 3,348 | | 167,372 | | 400-ft. inclined shaft and drift. |
| 1908 | do. | 651 | | 3,032 | | 285,786 | | 120-ft. shaft and tunnel. |
| 1909 | do. | 600 | | 3,000 | | 264,000 | | 800-ft. development. |
| 1910 | do. | 720 | | 3,497 | | 314,579 | | 150-ft. drifting. Operated 2-1/2 months. |
| 1911 | do. | 1,397 | | 5,861 | | 552,548 | | Operated by lessee. |
| 1912 | do. | 152 | | 850 | | 60,469 | | No development. Lessee operated. |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1913 | do. | 569 | | 2,161 | | 178,250 | | |
| 1914 | do. | 82 | | 423 | | 32,304 | | |
| 1915 | do. | 569 | | 2,414 | | 214,665 | | |
| 1916 | do. | 781 | | 3,191 | | 233,150 | | Lease operation. 300-ft. drifting. |
| 1917 | G. Vervaeke | 499 | | 2,178 | | 177,481 | | |
| 1918 | do. | 302 | | 4,419 | | 19,348 | | |
| 1919 | Deer Trail Consolidated Mining & Milling Co. | 42 | | 67 | | 6,495 | | 700-ft. drifting. |
| 1920 | W. A. Corey | 160 | | 711 | | 66,871 | | |
| 1923 | G. Vervaeke | 98 | | 839 | | 36,378 | | |
| 1924 | do. | 194 | | 279 | | 25,427 | | |
| 1929 | Bonanza Mining & Milling Co. | 3,000 | | 1,896 | 321 | 184,827 | | Total 750-ft. shaft, 300-ft. drift. |
| 1930 | Northern Lead Mining & Milling Co. | 1,350 | | 988 | 141 | 93,621 | | 75-ft. tunnel; cleaning out 4th, 5th, and 6th levels. |
| 1942 | Russell Parker | 100 | | 582 | | 52,794 | | 100-ft. shaft, 60-ft. drifts. Building mill. |
| 1943 | do. | 232 | | 1,057 | | 98,507 | | 70-ft. shaft, 350-ft. drifts. |
| 1944 | do. | 24 | | 104 | | 9,713 | | |
| 1945 | Victory Metals, Inc. | 1,800 | 2 | 2,643 | 735 | 287,327 | 3,982 | 100-ton selective flotation mill. |
| 1946 | Bonanza Lead Co. | 3,750 | 2 | 7,194 | 1,700 | 800,000 | | |
| 1947 | do. | 7,764 | | 17,548 | 4,000 | 1,920,130 | | 500-ft. drifts, 400-ft. raise. |
| 1948 | do. | 12,386 | 8 | 23,095 | 4,200 | 2,657,000 | | 800-ft. drifts, 350-ft. tunnel. |
| 1949 | do. | 14,163 | | 35,866 | 3,300 | 3,900,000 | | 949-ft. drifts, 552-ft. tunnel. |
| 1950 | do. | 20,000 | | 45,415 | 2,162 | 5,273,018 | 45,940 | |
| 1951 | do. | 13,672 | | 31,445 | 799 | 3,499,182 | 42,716 | |
| 1952 | Anaconda Copper Mining Co. | 16,100 | | 34,382 | 4,555 | 3,469,117 | 138,049 | 10,586 tons old tailings. |
| | Total | 101,994 | 12 | 238,485 | 21,913 | 24,880,359 | 230,687 | |
| | CHLORIDE QUEEN | | | | | | | |
| 1924 | D. E. Zent | 18 | | 47 | | 7,121 | | |
| 1926 | Kroll, Martin & Heath | 6 | | 30 | 9 | 4,980 | | |
| 1929 | | 11 | 1 | 1,492 | 10 | 160 | | |
| | Total | 35 | 1 | 1,569 | 19 | 12,261 | | |
| | CLUGSTON CREEK | | | | | | | |
| 1953 | A. E. Tesdahl | 168 | | 161 | 139 | 15,083 | 5,500 | |
| 1954 | Williams & McKnight | 9 | | 7 | | 1,200 | | |
| | Total | 177 | | 168 | 139 | 16,283 | 5,500 | |
| | DE STAFFANY | | | | | | | |
| 1930 | Gus DeStaffany | 1 | 1 | | | | | |
| | ELZORA | | | | | | | |
| 1935 | J. P. Brown | 4 | | 28 | 41 | 735 | | |
| | GEORGE BOULDER | | | | | | | |
| 1935 | J. P. Brown | 14 | | 62 | | 5,311 | | |
| | HIGH CLIFF | | | | | | | |
| 1948 | R. Johnson | 15 | | 7 | | 3,344 | 3,500 | |
| 1949 | do. | 39 | | 74 | | 6,112 | 4,640 | |
| | Total | 54 | | 81 | | 9,456 | 8,140 | |
| | MARCUS | | | | | | | |
| 1935 | Marcus Mining & Milling Co. | 1 | | 33 | 43 | 293 | | |
| | MINORCA | | | | | | | |
| 1903 | L. Tower | 90 | | 9,259 | | 249,000 | | |

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TABLE 2. - Mine production of gold, silver, copper, lead, and zinc, 1902-56, by mines, in terms of recoverable metals (Con.)

BOSSBURG (CLUGSTON CREEK) DISTRICT, STEVENS COUNTY (Con.)

| Year | Mine and operator | Ore (tons) | Gold (oz.) | Silver (oz.) | Copper (lb.) | Lead (lb.) | Zinc (lb.) | Remarks |
|---|---|---|---|---|---|---|---|---|
| | NEGLECTED GROUP | | | | | | | |
| 1916 | A. W. Miles | 2 | | 2 | | 1,110 | | |
| 1917 | do. | 2 | | 5 | | 2,250 | | 175-ft. tunnel. |
| 1925 | do. | 1 | | 3 | | 1,343 | | |
| 1928 | do. | 4 | | 6 | 4 | 3,276 | | |
| | Total | 9 | | 16 | 4 | 7,979 | | |
| | ROBENA | | | | | | | |
| 1908 | Robena Silver Lead Mining Co. | 20 | | 964 | | 10,000 | | 200-ft. tunnel. $4,000 spent on development. |
| | SIBBLEY - McKINLEY | | | | | | | |
| 1907 | W. R. Hook | 27 | 10 | 265 | | | | |
| | SILVER TRAIL | | | | | | | |
| 1925 | Silver Trail Mining Co. | 9 | | 372 | | 1,979 | | 380-ft. tunnel, 800-ft. tunnel. 4 stopes. |
| 1938 | P. O. Wiltermood | 5 | | 152 | | 817 | | |
| 1939 | do. | 6 | | 134 | 19 | 639 | | |
| 1941 | F. J. Cardinal | 85 | | 349 | | 1,650 | 5,400 | Building mill. |
| 1950 | R. Ramser | 11 | | 1 | | 303 | | 100-ft. tunnel. |
| 1951 | Silver Trail Lead-Silver-Gold Co. | 600 | | 1,614 | 268 | 8,681 | 11,605 | |
| 1952 | do. | 150 | | 294 | 87 | 1,484 | 3,366 | |
| | Total | 866 | | 2,916 | 374 | 15,553 | 20,371 | |
| | YOUNG AMERICA | | | | | | | |
| 1905 | Young America Cliff Consolidated Mining Co. | 150 | | 3,311 | | 21,176 | | Includes Cliff, Sunset, and Bluff; 1,000-ft. tunnel. |
| 1912 | Robena Silver Lead Mining Co. | 19 | | 428 | | 7,110 | | |
| 1913 | Jacquish & Carlson Co. | 8 | | 402 | | 6,000 | | |
| 1917 | C. W. Connell | 78 | | | | | 18,852 | |
| 1922 | G. Pulito | 25 | 1 | 1,561 | | 13,607 | | 115-ft. development. |
| 1923 | F. Parker | 153 | 6 | 6,036 | | 49,157 | | |
| 1924 | do. | 19 | 1 | 917 | | 8,390 | | |
| 1928 | O. W. Haar | 17 | 1 | 1,233 | | 10,539 | | 80-ft. tunnel (total 750-ft. tunnel and drift). |
| 1935 | Young America Mining Co. | 4 | | 12 | | 111 | | |
| 1936 | Malby, Spiers & Archibald | 5 | | 541 | | 5,500 | | Restored old workings. Stoping. |
| 1938 | Archibald & Riggle | 13 | | 210 | 17 | 4,009 | | |
| 1941 | Edson & Riggle | 70 | | 347 | 419 | 2,650 | 9,050 | 70-ft. tunnel, 500-ft. diamond drilling. |
| 1945 | Halsey, Morris & Leighton | 380 | 3 | 3,386 | 578 | 29,444 | 21,830 | 60-ft. drift. |
| 1946 | do. | 359 | 6 | 6,375 | 889 | 56,408 | 79,606 | 100-ft. drift, 100-ft. raise. |
| 1947 | do. | 897 | 13 | 10,832 | 1,725 | 99,738 | 209,320 | 100-ft. drift, 200 ft. diamond drilling. |
| 1948 | Morris & Leighton | 3,000 | 9 | 13,363 | 680 | 127,465 | 136,980 | |
| 1949 | Morris & Leighton and Gregor Mines | 3,094 | 7 | 9,308 | | 101,120 | 171,930 | |
| 1950 | Morris & Leighton | 218 | | 612 | | 7,123 | 14,480 | |
| 1951 | Bonanza Lead Co. | 660 | 1 | 2,744 | 193 | 28,294 | 36,188 | |
| 1952 | do. | 600 | 2 | 4,330 | 226 | 41,634 | 22,883 | |
| 1953 | do. | 3,620 | | 3,945 | 411 | 320,244 | 50,510 | |
| | Total | 13,389 | 50 | 69,893 | 5,138 | 939,719 | 771,629 | |

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## CHEWELAH DISTRICT, STEVENS COUNTY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | AMAZON | | | | | | | |
| 1911 | Oppenheimer Bros. | 28 | | 156 | 3,560 | | | 50-ft. vertical shaft, 730-ft. tunnel. |
| 1916 | do. | 169 | | 378 | 7,089 | | | 125-ft. drift, stoping 45 ft. |
| 1917 | do. | 323 | 3 | 1,340 | 13,104 | | | |
| 1918 | do. | 145 | 3 | 317 | 5,787 | | | |
| | Total | 665 | 6 | 2,191 | 29,540 | | | |
| | B & B | | | | | | | |
| 1917 | B & B Mining Co. | 30 | 1 | 60 | 6,263 | | | |
| | BLUE STAR | | | | | | | |
| 1911 | Blue Star Mining Co. | 86 | 2 | 1,374 | 2,796 | 77,016 | | 217-ft. vertical shaft, 100-ft. winze, 1,000-ft. drifts. |
| 1916 | do. | 70 | | | | 42,000 | | |
| | Total | 156 | 2 | 1,374 | 2,796 | 119,016 | | |
| | BROWNS LAKE | | | | | | | |
| 1917 | W. Whitford | 27 | | 14 | 2,241 | | | 80-ft. shaft. |
| 1918 | Browns Lake Copper Co. | 22 | | 13 | 1,249 | | | |
| | Total | 49 | | 27 | 3,490 | | | |
| | CHINTO | | | | | | | |
| 1937 | Chinto Mining Co. | 21 | | 57 | 1,739 | | | |
| 1939 | do. | 130 | 9 | 4,983 | 13,293 | | | |
| | Total | 151 | 9 | 5,040 | 15,032 | | | |
| | COPPER GOLD | | | | | | | |
| 1906 | G. Robbins | 1 | 1 | 12 | 114 | | | |
| | COPPER KING | | | | | | | |
| 1904 | Copper King Mining Co. | 1,000 | 48 | 3,509 | 50,000 | | | 1,300-ft. tunnel, 200-ft. raise, 200-ft. drift. |
| 1905 | do. | 3,000 | 27 | 1,000 | 30,000 | | | |
| 1906 | do. | 1,405 | 13 | 421 | 37,104 | | | |
| 1910 | Chewelah Copper King Mining Co. | 125 | 2 | 57 | 5,104 | | | Mine idled by litigation until May 7, 1911. |
| 1913 | do. | 1,746 | | 258 | 55,814 | | | |
| 1914 | do. | 1,380 | | 103 | 33,637 | | | |
| 1916 | do. | 614 | | 60 | 19,938 | | | 200-ft. crosscuts and drift. |
| 1917 | do. | 1,219 | | 185 | 33,857 | | | |
| 1938 | Chinto Copper Co. | 27 | 3 | 956 | 4,102 | | | |
| 1940 | Chinto Mining Co. | 924 | 41 | 15,082 | 66,480 | | | 25-ton mill. |
| 1941 | do. | 1,587 | 49 | 17,962 | 110,843 | | | |
| | Total | 13,027 | 183 | 39,593 | 446,879 | | | |
| | EAGLE | | | | | | | |
| 1902 | Eagle Consolidated Gold Mining Co. | 60 | | 109 | 540 | 11,797 | | 225-ft. shaft, 800-ft. tunnel. |
| 1903 | do. | 53 | | 741 | | 14,200 | | Crosscuts on 117 level. |
| 1912 | Blue Star Mining Co. | 48 | 2 | 1,099 | 336 | 51,454 | | |
| 1926 | do. | 10 | | 184 | 175 | 9,845 | | |
| 1935 | Chewelah Eagle Mining Co. | 2 | | 33 | 34 | 1,397 | | |
| | Total | 173 | 2 | 2,166 | 1,085 | 88,693 | | |
| | GUARANTY | | | | | | | |
| 1914 | Guaranty Mining & Development Co. | 23 | | 187 | | | | |



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TABLE 2. - Mine production of gold, silver, copper, lead, and zinc, 1902-56, by mines, in terms of recoverable metals (Con.)

CHEWELAH DISTRICT, STEVENS COUNTY (Con.)

| Year | Mine and operator | Ore (tons) | Gold (oz.) | Silver (oz.) | Copper (lb.) | Lead (lb.) | Zinc (lb.) | Remarks |
|---|---|---|---|---|---|---|---|---|
| | HARTFORD | | | | | | | |
| 1916 | Krug Gold & Copper Mining Co. | 52 | | 212 | | | | |
| 1917 | do. | 26 | | 104 | 52 | | | |
| | Total | 78 | | 316 | 52 | | | |
| | HIGH GRADE | | | | | | | |
| 1917 | Columbia Copper Co. | 1 | | 21 | 53 | | | |
| 1919 | D. Strobeck Co. | 68 | 1 | 1,458 | 10,131 | | | |
| 1920 | do. | 29 | 1 | 477 | 4,730 | | | |
| | Total | 98 | 2 | 1,956 | 14,914 | | | |
| | HOLT | | | | | | | |
| 1926 | C. Holt | 1 | | 32 | | 19 | 587 | |
| | JAY GOULD | | | | | | | |
| 1902 | Jay Gould Mining Co. | 100 | | 47 | | 6,241 | | 180-ft. shaft, 1,508-ft. tunnel and crosscuts. |
| 1903 | do. | 80 | | 250 | | 29,650 | | |
| 1904 | do. | 25 | | 789 | | 5,000 | | In hands of D. F. Strobeck, receiver. |
| 1907 | do. | 15 | | 1,250 | | | | Still mostly a prospect. |
| 1939 | O. C. Niles | 6 | | 166 | 82 | 1,851 | | |
| | Total | 226 | | 2,502 | 82 | 42,742 | | |
| | JUNE ECHO | | | | | | | |
| 1916 | June Echo Mining & Milling Co. | 47 | | 9 | 2,327 | | | 275-ft. shaft, 100-ft. drifts. |
| | KEOUGH | | | | | | | |
| 1917 | W. Keough | 14 | 1 | 143 | 3,260 | | | |
| | LIBERTY | | | | | | | |
| 1916 | Liberty Copper Mining Co. | 8 | | 1 | 134 | | | |
| | NEVADA | | | | | | | |
| 1937 | Emery Guay | 5 | | 58 | 38 | 1,390 | | Part-time prospect. |
| | SILVER SUMMIT | | | | | | | |
| 1923 | Silver Summit Mining Co. | 9 | | 175 | 45 | 2,523 | | |
| | SILVER UNION | | | | | | | |
| 1914 | Addy | 10 | | 85 | | 1,109 | | |
| | STANDARD CHEWELAH | | | | | | | |
| 1916 | Standard Chewelah Mining Co. | 42 | | 13 | 1,684 | | | |
| | SUMMIT | | | | | | | |
| 1935 | Silver Summit Mining Co. | 2 | | 52 | 14 | 1,178 | | |
| | UNITED COPPER | | | | | | | |
| 1906 | United Copper Mining Co. | 94 | | 235 | 3,473 | | | Shaft 175 ft., tunnel 300 ft. |
| 1907 | do. | 331 | 1 | 490 | 12,000 | | | Tunnel 700-ft. Development work only. |
| 1908 | do. | 3,517 | 29 | 18,632 | 171,213 | | | 700 ft. of tunnel. Shaft work. |
| 1909 | do. | 419 | 10 | 2,309 | 22,919 | | | 2,050-ft. development. |
| 1910 | do. | 655 | 2 | 7,366 | 33,878 | | | 500-ft. drifting. Operated entire year. |
| 1911 | do. | 1,192 | 20 | 31,152 | 104,526 | | | |
| 1912 | do. | 13,395 | 98 | 227,648 | 941,497 | | | |
| 1913 | do. | 14,593 | 114 | 139,785 | 723,818 | | | |
| 1914 | do. | 17,144 | 107 | 89,208 | 539,938 | | | |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1915 | do. | 34,150 | 83 | 93,013 | 617,394 | | | |
| 1916 | do. | 44,829 | 94 | 163,244 | 1,198,963 | | | |
| 1917 | do. | 60,774 | 68 | 148,248 | 1,152,649 | | | |
| 1918 | do. | 63,834 | 333 | 142,005 | 987,524 | | | |
| 1919 | do. | 50,630 | 58 | 137,882 | 918,561 | | | Shaft 200-ft., drift 400-ft. |
| 1920 | United Silver-Copper Co. | 37,464 | 77 | 130,561 | 835,615 | | | |
| 1921 | do. | 1,332 | 25 | 65,716 | 246,017 | | | |
| 1922 | do. | 5,957 | 36 | 68,174 | 307,829 | | | Total development-1,400-ft. shaft, 6,000-ft. drift, 5,000-ft. tunnel. |
| 1923 | do. | 2,130 | 23 | 50,787 | 207,234 | | | |
| 1924 | do. | 1,616 | 17 | 35,527 | 124,059 | | | |
| 1925 | do. | 355 | 7 | 23,399 | 69,539 | | | |
| 1927 | Lessees | 218 | 5 | 18,298 | 47,891 | | | |
| 1928 | do. | 123 | 3 | 11,897 | 34,328 | 890 | | Total: 100-ft. shaft, 7,000-ft. drift, 3,000-ft. tunnel. |
| 1929 | do. | 164 | 4 | 14,249 | 41,578 | | | Portion of mine leased. |
| 1930 | do. | 156 | 4 | 17,208 | 47,985 | | | 40-ft. raise. |
| 1931 | Moriarity Bros. | 60 | 4 | 8,964 | 23,776 | | | 65-ft. raise. |
| | Total | 355,132 | 1,222 | 1,645,997 | 9,414,204 | 890 | | |
| | UNITED STATES | | | | | | | |
| 1916 | United States Copper-Gold Mining Co. | 19 | | 19 | 966 | | | |
| 1917 | do. | 1 | | 16 | 138 | | | |
| | Total | 20 | | 35 | 1,104 | | | |
| | WHAT HO | | | | | | | |
| 1917 | A. J. Kruge | 21 | | 6 | 991 | | | |

COLVILLE DISTRICT, STEVENS COUNTY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1913 | ACORN | 7 | | 6 | | 5,574 | | |
| | BIG STRIKE | | | | | | | |
| 1902 | John Keorgh | 35 | | 4,264 | | 1,204 | | 3 tunnels 37-ft. to 40-ft. |
| 1904 | Frisco Standard Mining Co. | 20 | | 1,002 | 390 | 4,000 | | Shipped 1 carload of ore. |
| 1905 | do. | 300 | | 2,980 | 641 | 21,175 | | Shipped 10 carloads of ore. |
| | Total | 355 | | 8,246 | 1,031 | 26,379 | | |
| | BRUCE | | | | | | | |
| 1944 | Victory Metals Corp. | 500 | 1 | 351 | | 16,100 | 73,400 | |
| | BURRUS | | | | | | | |
| 1935 | J. Burrus | 30 | 1 | 597 | 123 | 1,704 | | |
| 1938 | B. Melby | 1 | | 184 | 44 | 516 | | |
| 1939 | do. | 50 | | 245 | 30 | 935 | | Total: 50-ft. shaft, 100-ft. crosscut. Operating mill. |
| | Total | 81 | 1 | 1,026 | 197 | 3,155 | | |
| | CLUGSTON (DEAD MEDICINE) | | | | | | | |
| 1912 | Clugston Mining & Milling Co. | 21 | | 1,150 | | 5,953 | | 2 inclined shafts 90 ft., drift 380 ft., 850 ft. other. |
| | COLBURN - TRIANGLE | | | | | | | |
| 1935 | Williams & Johnson | 1 | | 62 | 34 | 691 | | |
| | EASY MONEY | | | | | | | |
| 1927 | O. Bergland | 4 | | 16 | | 5,312 | | 65-ft. shaft, 30-ft. drifts, 70-ft. tunnel. |



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TABLE 2. Mine production of gold, silver, copper, lead, and zinc, 1902-56, by mines, in terms of recoverable metals (Con.)

COLVILLE DISTRICT, STEVENS COUNTY (Con.)

| Year | Mine and operator | Ore (tons) | Gold (oz.) | Silver (oz.) | Copper (lb.) | Lead (lb.) | Zinc (lb.) | Remarks |
|---|---|---|---|---|---|---|---|---|
| | GALENA KNOB GROUP | | | | | | | |
| 1948 | R. Davidson | 5 | | 8 | | 5,900 | | |
| | HAMILTON | | | | | | | |
| 1935 | E. Hamilton | 1 | 2 | 1 | | | | |
| 1935 | HOUSELAND & MELBY | 3 | | 76 | | 1,300 | 2,159 | Cleanings. |
| | MIDDLEPORT | | | | | | | |
| 1929 | E. Fisher & Co. | 17 | | 256 | | 4,951 | 8,327 | Total: 50-ft. shaft, 600-ft. drift, 50-ft. tunnel. |
| 1937 | G. Lorenz | 29 | | 214 | | 4,296 | 12,900 | 100-ft. development. |
| 1938 | E. F. Hauck | 17 | 2 | 205 | 55 | 2,500 | | 50-ft. drift, 25-ft. raise. Mill. 15,000 tons blocked out. |
| 1939 | do. | 30 | 1 | 77 | 20 | 905 | 1,442 | 30-ft. drift, 20-ft. tunnel. Erecting mill building. |
| | Total | 93 | 3 | 752 | 75 | 12,652 | 22,669 | |
| | NORWAY KING | | | | | | | |
| 1908 | E. Ostroot | 69 | | 30 | | 18,296 | | |
| 1909 | do. | 41 | | 12 | | 12,677 | | |
| | Total | 110 | | 42 | | 30,973 | | |
| | NORTHWEST | | | | | | | |
| 1944 | DaRoy Metals Co. | 59 | | 45 | | 294 | 23,400 | |
| 1945 | do. | 45 | | 30 | | 250 | 15,700 | Total: 320-ft. tunnel, 30-ft. winze. |
| | Total | 104 | | 75 | | 544 | 39,100 | |
| | OLD DOMINION | | | | | | | |
| 1902 | Old Dominion Mining & Milling Co. | 300 | | 8,492 | | 9,830 | | 3,100 ft. tunnel, 800-ft. shaft. |
| 1903 | do. | 96 | | 13,935 | | 57,600 | | Operating concentration plant on property. |
| 1915 | do. | 188 | 21 | 13,518 | | 17,968 | | Reopened tunnel. Closed down by law suit. |
| 1916 | Dominion Silver-Lead Co. | 30 | | 210 | | 8,900 | | Closed down most of year by litigation. |
| 1921 | do. | 60 | 2 | 4,638 | | 16,349 | | |
| 1922 | do. | 39 | 5 | 18,671 | 970 | 8,087 | | 1,000-ft. development. Operated all year. |
| 1923 | do. | 209 | 21 | 14,384 | 422 | 32,588 | | 800-ft. development. |
| 1924 | do. | 695 | 101 | 81,535 | 102 | 149,432 | | 2,500-ft. development. Plant improvements. |
| 1925 | do. | 939 | 55 | 71,987 | | 176,843 | 37,264 | 4,112-ft. development. Low grade dumped. |
| 1926 | do. | 843 | 79 | 86,544 | 2,030 | 200,421 | 41,507 | Ore bodies failed 200 ft. below main tunnel. |
| 1927 | do. | 5 | | 192 | | 423 | | |
| 1929 | McDonald Bros. | 31 | | 1,266 | | 6,770 | 13,731 | |
| 1934 | T. Stevens | 90 | 10 | 7,057 | 187 | 14,271 | | Lease on dump. |
| 1935 | do. | 49 | 4 | 3,097 | 217 | 6,205 | | Do. |
| 1936 | do. | 109 | | 5,756 | | 12,413 | 28,780 | Old tailings. |
| 1937 | do. | 78 | | 3,349 | | 7,365 | 20,500 | No work in mine-operated on dump. |
| 1938 | do. | 29 | 2 | 1,116 | 88 | 1,913 | | |
| 1939 | do. | 13 | 15 | 1,109 | 76 | 3,542 | | |
| 1940 | do. | 64 | 5 | 2,766 | | 5,900 | | Old tailings. |
| 1944 | Victory Metals Corp. | 100 | 2 | 1,255 | | 2,373 | | Do. |
| 1952 | Bonanza Lead Co. | 10 | | 710 | 40 | 1,536 | 2,094 | |
| 1953 | do. | 111 | 1 | 930 | | 3,662 | 4,687 | |
| | Total | 4,088 | 323 | 342,517 | 4,132 | 744,391 | 148,563 | |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | OLD DOMINION (SMELTER DUMP) | | | | | | | |
| 1917 | I. Knapp | 44 | 33 | 43 | | 767 | | Slag. |
| | ONION CREEK | | | | | | | |
| 1925 | Lotze Bros. | 17 | | 56 | | 14,481 | | 35-ft. shaft and open cuts. |
| | ORE CACHE | | | | | | | |
| 1916 | L. Gordon | 3 | | 156 | | 644 | | 60-ft. tunnel. |
| | SHUMAKER-CAMPBELL | | | | | | | |
| 1926 | American Concentration & Mining Co. | 36 | | | | 4,536 | 9,797 | |
| | SMOKEY BULLION | | | | | | | |
| 1941 | McDonald, Hamill & Norman | 96 | | 31 | | 9,484 | 17,111 | Open cut. |
| | UNCLE SAM GROUP | | | | | | | |
| 1926 | Uncle Sam Mining Co. | 23 | | 16 | | 8,216 | | |

**DEER TRAIL (CEDAR CANYON) DISTRICT, STEVENS COUNTY**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | ALDERSON | | | | | | | |
| 1913 | O. Alderson | 9 | | 734 | | 758 | | |
| | CEDAR CANYON | | | | | | | |
| 1913 | Cedar Canyon Mining Co. | 10 | | 871 | | | | |
| | CRAWFORD | | | | | | | |
| 1914 | W. Crawford | 8 | | 123 | | 2,783 | | |
| | GRAND VIEW | | | | | | | |
| 1904 | Grand View Consolidated Mining & Milling Co. | 50 | | 500 | | | | Ore also contained nickel and cobalt. |
| | HIGH GRADE (TURK) | | | | | | | |
| 1916 | High Grade Mining Co. | 148 | 3 | 48 | 30,510 | | | 1,480-ft. tunnels. Leased part of year. |
| 1918 | do. | 594 | 9 | 232 | 79,892 | | | 600-ft. tunnel. |
| 1919 | Reardon Copper Co. | 183 | 2 | 54 | 27,479 | | | 50-ft. drifting. |
| 1927 | Snowdrift Mining Co. | 202 | | 39 | 21,714 | | | |
| 1929 | do. | 197 | | 66 | 31,019 | | | |
| | Total | 1,324 | 14 | 439 | 190,614 | | | |
| | KING | | | | | | | |
| 1903 | King Gold & Copper Mining Co. | 100 | 121 | | 18,868 | | | |
| | LEGAL TENDER | | | | | | | |
| 1902 | Cedar Canyon Consolidated Mining Co. | 440 | | 92,093 | | 195,159 | | Several tunnels 150-200-ft. in length. |
| 1903 | do. | 70 | | 20,965 | | 11,200 | | From Deer Trail and Legal Tender mines. |
| 1904 | do. | 55 | | 9,153 | | 8,594 | | |
| | Total | 565 | | 122,211 | | 214,953 | | |
| | LITTLE HELEN | | | | | | | |
| 1913 | Cedar Canyon Smelting & Reduction Co. | 10 | | 871 | | | | |
| | McCOY | | | | | | | |
| 1917 | McCoy Mining Co. | 37 | | 40 | 6,351 | | | |
| | ORAZADA | | | | | | | |
| 1927 | West King Mining Co. | 25 | 2 | 315 | | 6,677 | | |
| 1941 | do. | 10 | 3 | 153 | 77 | 697 | | 7,300-ft. tunnel, 300-ft. shaft. |
| | Total | 35 | 5 | 468 | 77 | 7,374 | | |



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TABLE 2. - Mine production of gold, silver, copper, lead, and zinc, 1902-56, by mines, in terms of recoverable metals (Con.)

DEER TRAIL (CEDAR CANYON) DISTRICT, STEVENS COUNTY (Con.)

| Year | Mine and operator | Ore (tons) | Gold (oz.) | Silver (oz.) | Copper (lb.) | Lead (lb.) | Zinc (lb.) | Remarks |
|---|---|---|---|---|---|---|---|---|
| | PROVIDENCE | | | | | | | |
| 1902 | A. W. Turner | 80 | | 11,475 | | | | 800-ft. tunnels. Fissure vein. |
| 1903 | do. | 200 | | 33,333 | | 20,000 | | Shipped to Tacoma smelter. |
| 1904 | F. Houghton | 245 | | 33,989 | | 25,600 | | |
| 1905 | Houghton & Bradley | 37 | | 4,914 | | 4,492 | | Shipped to Tacoma smelter. |
| 1907 | do. | 30 | | 3,100 | | | | |
| 1911 | Fred Dodge | 16 | | 631 | | | | Mine reopened - little work. |
| | Total | 608 | | 87,442 | | 50,092 | | |
| | QUEEN | | | | | | | |
| 1903 | Silver Queen Mining Co. | 40 | | 5,000 | | 3,200 | | |
| 1917 | Silver Basin Mining Co. | 93 | | 4,728 | | | | |
| 1918 | do. | 109 | | 5,071 | 49 | | | Drift 215-ft., 30-ft. stope, (200-ft. shaft and total 1,500-ft. drifts). |
| 1921 | do. | 85 | | 4,430 | | 2,854 | | |
| 1922 | L. Van Horn | 34 | | 1,111 | 332 | | | Ore from Queen dump. |
| 1928 | | 46 | | 2,965 | | 1,396 | | |
| 1937 | Queen Seal Mining Co. | 240 | | 2,118 | 8 | 594 | | 350-ft. development. Mill operating. |
| 1938 | do. | 150 | 1 | 3,426 | 143 | 540 | | 890-ft. development. 40-ton flotation plant. |
| 1941 | Lee Thorpe | 4 | | 245 | | 110 | | 80-ft. drift, 200-ft. tunnel. |
| | Total | 801 | 1 | 29,094 | 532 | 8,694 | | |
| | ROYAL | | | | | | | |
| 1907 | A. W. Turner | 40 | | 1,386 | | | | 400-ft. tunnel. |
| 1908 | do. | 100 | | 3,500 | | | | 1,000-ft. tunnel, 200-ft. shaft. |
| | Total | 140 | | 4,886 | | | | |
| | SCHUMAN | | | | | | | |
| 1917 | Schuman | 14 | | | 828 | | | |
| | SEAL & QUEEN | | | | | | | |
| 1904 | Turk Mining | 850 | | 13,333 | 140,000 | | | 2 shafts 200 ft., drifts 1,700 ft., tunnel 400 ft. |
| 1908 | Deer Trail Consolidated Mining Co. | 70 | 17 | 9,434 | | | | Operated 8 months with 16 men. |
| | Total | 920 | 17 | 22,767 | 140,000 | | | |
| | SILVER HORD & RED CLOUD | | | | | | | |
| 1928 | Giant Silver Mining Co. | 4 | | 194 | | 158 | | |
| | SILVER SEAL (VAN HORN) | | | | | | | |
| 1902 | Silver Seal Mining Co. | 881 | | 211,725 | | | | 200-ft. shaft, 400-ft. tunnels. |
| 1903 | do. | 49 | | 2,141 | | | | 40-ft. tunnel. |
| 1904 | W. A. Crawford | 25 | | 2,093 | | | | 2 claims; Van Horn just reached ore, Silver Seal shipping. |
| 1908 | | 120 | 2 | 9,600 | | | | |
| 1922 | Van Horn & Snyder | 61 | | 2,771 | 151 | 2,735 | | |
| 1928 | Commodore Mines Corp. | 46 | | 2,965 | 67 | 1,396 | | Reopening mine; flooded. |
| 1929 | do. | 19 | | 1,727 | 27 | 863 | | |
| 1940 | Lee Thorpe | 8 | | 876 | 44 | 460 | | 120-ft. drifts, 80-ft. tunnel. |
| | Total | 1,209 | 2 | 233,898 | 289 | 5,454 | | |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | **SNYDER & BAXTER** | | | | | | | |
| 1908 | Snyder & Baxter | 30 | 1 | 4,115 | 705 | 3,350 | | |
| | **TENDERFOOT** | | | | | | | |
| 1907 | W. D. Johnson | 4 | | 774 | | | | Shaft 70 ft., tunnel 280 ft.; shipped to Tacoma. |

**KETTLE FALLS (MYERS FALLS) DISTRICT, STEVENS COUNTY**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | BEN VENUE | | | | | | | |
| 1905 | H. W. Sparks | 60 | 97 | 400 | | | | Inclined shaft 140 ft. To Granby smelter, B. C. |
| 1909 | Millan & Sparks | 82 | 152 | 383 | | | | 40-ft. development. |
| 1910 | do. | 23 | 31 | 89 | | | | |
| 1911 | do. | 49 | 95 | 298 | | | | |
| 1912 | do. | 22 | 29 | 98 | | | | |
| 1913 | H. W. Sparks | 19 | 70 | 264 | | | | |
| 1914 | do. | 34 | 144 | 782 | | | | |
| 1915 | H. E. Poulmier | 18 | 40 | 129 | | | | Sinking shaft and drifting. |
| | Total | 307 | 658 | 2,443 | | | | |
| | BIG SILVER | | | | | | | |
| 1936 | Big Silver Mining Co. | 19 | 1 | 259 | 136 | 235 | | |
| | CARTER & KNAPP | | | | | | | |
| 1931 | Carter & Knapp | 1 | 2 | 1 | | | | |
| | DAISY | | | | | | | |
| 1916 | Silver Mountain Mining Co. | 116 | 3 | 2,402 | | | | 265-ft. tunnel, 400-ft. drift, (3,500-ft. total). |
| 1918 | do. | 37 | | 639 | | 2,642 | | |
| 1924 | Consolidated Silver Mountain Mines Co. | 29 | | 862 | 362 | 3,713 | | 150-ft. raise, 175-ft. drift, stoping. Plant improved. |
| 1934 | do. | 600 | 3 | 4,653 | 1,900 | 9,162 | | Total: 1,400-ft. drifts. |
| 1935 | do. | 700 | 4 | 5,422 | 2,265 | 13,450 | | |
| | Total | 1,482 | 10 | 13,978 | 4,527 | 28,967 | | |
| | DORMAN | | | | | | | |
| 1940 | H. Dorman | 28 | 16 | 72 | 438 | | | |
| | EAGLE | | | | | | | |
| 1938 | H. E. Ross | 1 | | 30 | 38 | 264 | | |
| | GOLD LEDGE | | | | | | | |
| 1933 | Gold Ledge Mining Co. | 3 | 3 | 509 | | | | |
| 1934 | J. Pierson | 30 | 9 | 764 | | 54 | | Total: 140-ft. shaft, 50-ft. drift, 160-ft. tunnel. |
| 1935 | do. | 3 | 3 | 49 | | | | |
| | Total | 36 | 15 | 1,322 | | 54 | | |
| | GOLD REEF | | | | | | | |
| 1931 | H. Dorman | 33 | 36 | 138 | | | | Total: 80-ft. shaft, 200-ft. drift, 700-ft. tunnel. |
| 1932 | do. | 34 | 25 | 183 | | | | |
| 1939 | G. Gundry | 50 | 19 | 158 | | | | |
| 1947 | Reef Mining Co. | 130 | 58 | 225 | | | | 40-ft. shaft, 60-ft. drifts. |
| 1950 | Sentzen & Moorhead | 150 | 13 | 53 | | | | |
| | Total | 397 | 151 | 757 | | | | |

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TABLE 2. - Mine production of gold, silver, copper, lead, and zinc, 1902-56, by mines, in terms of recoverable metals (Con.)

KETTLE FALLS (MYERS FALLS) DISTRICT, STEVENS COUNTY (Con.)

| Year | Mine and operator | Ore (tons) | Gold (oz.) | Silver (oz.) | Copper (lb.) | Lead (lb.) | Zinc (lb.) | Remarks |
|---|---|---|---|---|---|---|---|---|
| | GUNDRY | | | | | | | |
| 1938 | G. Gundry | 23 | 13 | 32 | 26 | 24 | | |
| | IDEAL | | | | | | | |
| 1918 | A. Connell | 1 | 3 | 8 | | | | 16-ft. tunnel. No visible ore; abandoned. |
| | JACOBS & MEYERS | | | | | | | |
| 1904 | Jacobs & Meyers | 15 | | 9 | 1,430 | | | |
| | JOHN G. | | | | | | | |
| 1931 | John G. Mining Co. | 4 | 4 | 7 | | | | |
| | KETTLE FALLS | | | | | | | |
| 1938 | F. Norten | 1 | 2 | 4 | | | | |
| | KOYOTE | | | | | | | |
| 1953 | Bonanza Lead Co. | 935 | 5 | 323 | 34,524 | | | |
| | LUCKY STRIKE | | | | | | | |
| 1934 | A. LaPlant | 10 | 4 | 20 | 13 | | | |
| 1935 | A. Jaekins | 2 | | 1 | | | | |
| | Total | 12 | 4 | 21 | 13 | | | |
| | M & M | | | | | | | |
| 1917 | M & M Cost Store | 17 | 11 | 87 | | | | |
| | NAPOLEON MILLSITE | | | | | | | |
| 1939 | T. G. Stevens | 148 | 59 | 255 | 279 | 74 | | Cleanings. |
| | NORTON | | | | | | | |
| 1936 | F. Norton | 3 | 4 | 10 | | | | |
| | PROSPERITY | | | | | | | |
| 1932 | Fred Draper | 5 | | 30 | | | | Total: 30-ft. drifts, 12-ft. tunnel. |
| | RIGHTSIDE (GRAY EAGLE) | | | | | | | |
| 1903 | Columbis River Smelting Co. | 38 | | 208 | 170 | | | Shaft 107 ft. |
| 1904 | do. | 42 | 1 | 11 | 2,500 | | | |
| 1905 | do. | 75 | 1 | 17 | 3,205 | | | Installing electric plant. Ship to B. C. and Northport. |
| 1910 | Columbia River Gold Mining Co. | 19 | 1 | 36 | 2,945 | | | Operated 3 months - mostly development. |
| 1914 | do. | 20 | | 26 | 2,337 | | | |
| | Total | 194 | 3 | 298 | 11,157 | | | |
| | SANTIAGO | | | | | | | |
| 1953 | Mingo Mining Co. | 159 | | 141 | | 5,385 | 57 | |
| | SILVER STAR | | | | | | | |
| 1919 | A. Connell | 1 | 3 | 9 | | | | See Sunday - Star. |
| | SUNDAY - STAR | | | | | | | |
| 1904 | Meyers Bros. | 30 | 18 | 16 | | | | Tunnel 1,200 ft. |
| 1906 | J. Meyers | 30 | 48 | 200 | | | | |
| 1912 | Mineral Farm Mining Co. | 89 | 106 | 57 | | | | 500-ft. adit. Leased operation. |
| 1914 | G. Meyers | 2 | 4 | 6 | | | | |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1915 | do. | 3 | 8 | 22 | | | | |
| 1920 | A. Connell | 7 | 15 | 134 | | 18 | | 15-ft. tunnel (3 tunnels), 30 ft. shaft, 10-ft. drifts. |
| 1932 | G. C. Vaux | 23 | 17 | 32 | | | | |
| | Total | 184 | 216 | 467 | | 18 | | |
| | WOMAK | | | | | | | |
| 1924 | Womak Copper Co. | 32 | | 291 | 510 | | | |

NORTHPORT (ALADDIN) DISTRICT, STEVENS COUNTY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | ADMIRAL | | | | | | | |
| 1947 | Admiral Consolidated Mining Co. | 687 | 1 | 156 | 580 | 9,045 | 420,649 | 25-ft. drift, 240-ft. tunnel. 100-ton mill. |
| 1948 | do. | 364 | | 48 | 182 | 2,990 | 182,958 | |
| 1949 | do. | 390 | | 16 | | 1,087 | 29,630 | |
| 1950 | J. Colby | 15,000 | | 100 | | 7,874 | 294,935 | |
| 1951 | Colby & Brunelle | 2,688 | | 135 | | 10,431 | 389,919 | |
| 1952 | Admiral Consolidated Mining Co. | 2,000 | | 111 | | 6,506 | 191,292 | 500-ft. diamond drilling. New cells added. |
| 1954 | A. C. Neiman | 765 | 1 | 62 | | 2,700 | 36,700 | |
| 1955 | do. | 570 | | 40 | | 2,900 | 50,100 | |
| | Total | 22,464 | 2 | 668 | 762 | 43,533 | 1,596,183 | |
| | ADVANCE | | | | | | | |
| 1952 | Mines Management Co. | 286 | | 34 | | 4,815 | 18,482 | |
| 1953 | do. | 100 | | 37 | | 5,787 | 789 | |
| | Total | 386 | | 71 | | 10,602 | 19,271 | |
| | ALADDIN | | | | | | | |
| 1909 | Aladdin Mining Co. | 250 | | 217 | | 12,000 | | 100-ft. development. 50-ton concentrator. |
| 1910 | do. | 19 | | 212 | | 11,663 | | |
| | Total | 269 | | 429 | | 23,663 | | |
| | ANDERSON | | | | | | | |
| 1919 | S. W. Anderson | 12 | | 225 | | 15,239 | | |
| | BAILEY | | | | | | | |
| 1918 | F. E. Bailey | 1 | | 65 | | 1,769 | | |
| | BLACK EAGLE | | | | | | | |
| 1925 | Blue Ridge Mining Co. | 174 | 5 | 572 | 205 | 10,512 | 86,166 | |
| | BLACK ROCK (MAKI) | | | | | | | |
| 1921 | T. Harris | 1,050 | | 111 | | 76,696 | 449,360 | |
| 1922 | Washington Black Rock Mining Co. | 1,585 | | 187 | | 45,044 | 1,228,229 | 430-ft. drift. (Total: 370-ft. shaft, 325-ft. tunnel). |
| 1923 | do. | 3,450 | | | | | 3,024,535 | Mine flooded. Small mill; electricity in. |
| 1924 | J. Makynen | 2,781 | | 79 | | 19,116 | 910,890 | 150-ft. shaft. |
| 1925 | do. | 3,553 | | | | | 1,077,408 | 200-ft. shaft, 100-ft. drift. |
| 1926 | do. | 3,150 | | | | | 841,000 | 200-ft. shaft. |
| 1927 | do. | 1,872 | | | | | 316,294 | 200-ft. shaft, 300-ft. drift. |
| 1928 | do. | 350 | | | | | 55,731 | 190-ft. shaft, 330-ft. drift. |
| | Total | 17,791 | | 377 | | 140,856 | 7,903,447 | |
| | BLUE RIDGE | | | | | | | |
| 1926 | Blue Ridge Mining Co. | 112 | 1 | 552 | | 23,516 | 54,645 | |
| 1941 | Sierra Zinc Co. | 1,800 | 9 | 1,012 | 490 | 35,058 | 206,024 | Total: 450-ft. shaft, 1,500-ft. raises and drifts. 3 levels. |



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**TABLE 2. - Mine production of gold, silver, copper, lead, and zinc, 1902-56, by mines, in terms of recoverable metals (Con.)**

**NORTHPORT (ALADDIN) DISTRICT, STEVENS COUNTY (Con.)**

| Year | Mine and operator | Ore (tons) | Gold (oz.) | Silver (oz.) | Copper (lb.) | Lead (lb.) | Zinc (lb.) | Remarks |
|---|---|---|---|---|---|---|---|---|
| | BLUE RIDGE (Con.) | | | | | | | |
| 1942 | Sierra Zinc Co. | 12,123 | 110 | 7,559 | 10,935 | 323,080 | 1,332,700 | 150-ft. drifts. 100-ton mill. |
| 1943 | do. | 19,412 | 263 | 9,150 | 17,500 | 250,200 | 1,828,270 | 30-ft. raises, 400-ft. tunnel, 300-ft. diamond drilling. |
| 1944 | do. | 22,770 | 371 | 10,785 | 28,218 | 258,083 | 2,281,600 | |
| | Total | 56,217 | 754 | 29,058 | 57,143 | 889,937 | 5,703,239 | |
| | BOB & WILSON | | | | | | | |
| 1920 | A. V. Downs | 3 | | 83 | | 696 | | |
| | BRYAN | | | | | | | |
| 1917 | William Bechtol | 24 | | 19 | | 35,407 | | |
| 1918 | do. | 41 | | 52 | | 59,759 | | |
| 1919 | do. | 8 | | 8 | | 11,473 | | |
| 1920 | do. | 7 | | 9 | | 9,525 | | 200-ft. drifts. |
| 1925 | do. | 20 | | 18 | | 27,784 | | 60-ft. development. |
| 1937 | do. | 10 | | 14 | | 14,880 | | 30-ft. development. |
| 1939 | B. Hofer | 28 | | 28 | | 32,879 | | |
| 1940 | do. | 46 | | 50 | | 57,523 | | 50-ft. shaft. |
| | Total | 184 | | 198 | | 249,230 | | |
| | BULLION GROUP | | | | | | | |
| 1925 | F. Nudell | 11 | | 115 | | 8,253 | | |
| | COYOTE | | | | | | | |
| 1916 | J. Herron | 15 | | 5 | | 300 | | Prospect only. |
| 1917 | Coyote Mining Co. | 14 | | 151 | | 3,396 | | |
| | Total | 29 | | 156 | | 3,696 | | |
| | CRYSTAL | | | | | | | |
| 1949 | W. Clearwater | 5 | | 25 | | 5,736 | | |
| | DEEP CREEK | | | | | | | |
| 1944 | Jamison-Higginbotham Mining Co. | 8,230 | 6 | 235 | | 3,418 | 595,000 | |
| 1945 | do. | 29,483 | | 613 | | 56,230 | 2,820,500 | |
| 1946 | do. | 39,634 | 6 | 707 | 3,700 | 77,990 | 3,580,000 | |
| 1947 | Goldfield Consolidated Mining Co. | 49,155 | 15 | 1,793 | 3,200 | 842,447 | 5,128,000 | |
| 1948 | do. | 50,421 | 10 | 3,656 | 1,785 | 2,413,200 | 6,287,200 | |
| 1949 | do. | 45,439 | 12 | 2,145 | | 548,000 | 2,661,600 | |
| 1950 | do. | 46,980 | | 1,373 | | 437,318 | 2,278,811 | |
| 1951 | do. | 104,484 | | 3,991 | | 1,851,149 | 6,601,524 | |
| 1952 | do. | 102,880 | | 4,658 | | 2,488,847 | 7,646,292 | |
| 1953 | do. | 68,615 | | 5,642 | | 2,997,828 | 8,916,735 | 300-ton flotation mill. |
| 1954 | do. | 40,020 | 4 | 3,081 | 3,000 | 987,200 | 3,673,900 | Marginal operation. |
| 1955 | do. | 98,386 | 10 | 5,230 | 8,300 | 1,695,700 | 8,882,600 | Reserves for 1 year only. Shaft fire. |
| 1956 | do. | 79,580 | 6 | 3,331 | 4,100 | 783,600 | 6,549,800 | Mine closed November - high costs and low metal prices. |
| | Total | 763,307 | 69 | 36,455 | 24,085 | 15,182,927 | 65,621,962 | |
| | DRAPER | | | | | | | |
| 1934 | Fred Draper | 2 | | 25 | 13 | 135 | | |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | **ELECTRIC POINT** | | | | | | | |
| 1916 | R. Young | 8,135 | | 735 | | 4,698,416 | | 200-ft. vertical shaft, 1,684-ft. tunnel. |
| 1917 | do. | 14,842 | | 1,230 | | 9,095,112 | | 600-ft. shaft. |
| 1918 | do. | 7,358 | | 646 | | 4,852,353 | | 300-ft. shaft, 2,000-ft. drift. |
| 1919 | Electric Point Mining Co. | 2,830 | | 550 | | 2,025,292 | | Drifts 2,000 ft. |
| 1920 | do. | 8,001 | | 741 | | 5,167,109 | | |
| 1922 | do. | 521 | | 457 | | 515,149 | | Mine closed. |
| 1925 | do. | 2,709 | | 631 | | 851,826 | | |
| 1926 | do. | 1,365 | | 386 | | 499,205 | | |
| 1927 | do. | 501 | | 220 | | 263,402 | | |
| 1928 | do. | 178 | | 83 | 286 | 137,372 | | Operated by lessees. |
| 1929 | do. | 107 | | 25 | 62 | 107,313 | | |
| 1930 | Eli Raisio & Co. | 398 | | 140 | 278 | 313,573 | | Total: 900-ft. shaft, 600-ft. tunnel. |
| 1931 | do. | 83 | | 70 | 74 | 111,031 | | |
| 1932 | do. | 192 | | 99 | | 292,180 | | 200-ft. development. |
| 1933 | do. | 123 | | 74 | | 120,375 | | 150-ft. development. |
| 1934 | Rex, Janek & Reynolds | 35 | | 33 | 48 | 52,656 | | Taken over by receiver. |
| 1935 | Bingham & Simonton | 89 | | 87 | 35 | 103,771 | | Retimbered 1,000 ft., 120-ft. drift, 80-ft. raise. |
| 1936 | do. | 57 | | 44 | | 69,221 | | 235-ft. drift, 100-ft. raise. |
| 1937 | Simonton Mine Co. | 221 | | 148 | | 184,376 | | 530-ft. drift, 160-ft. raises, 100-ft. shaft. |
| 1938 | do. | 388 | | 224 | | 399,227 | | |
| 1939 | do. | 257 | | 179 | 13 | 225,507 | | 100-ft. shaft, 400-ft. drift. |
| 1940 | do. | 41 | | 19 | | 34,591 | | 100-ft. shaft, 200-ft. drift. |
| 1941 | do. | 94 | | 35 | | 60,217 | | |
| 1942 | R. Davis | 17 | | 7 | | 15,171 | | Development - mine rejected. |
| 1943 | A. Lotze | 42 | | 14 | | 46,600 | | 35-ft. drifts (opened up large deposit iron ore). |
| 1944 | do. | 218 | | 74 | 353 | 72,911 | | |
| 1947 | Lead Point Electric Mining Co. | 57 | | 13 | | 34,988 | | |
| 1948 | do. | 2,207 | | 131 | | 292,552 | 7,825 | |
| 1949 | do. | 106 | | 31 | | 48,275 | 2,055 | |
| 1952 | Three Peaks Mining Co. | 3 | | 4 | | 2,502 | 106 | 40-ft. shaft, 50-ft. drift. Hand sorting. |
| 1953 | do. | 16 | | 16 | | 12,844 | 405 | 70-ft. shaft, 50-ft. drift. |
| 1954 | Harris & Bumgarner | 9 | | 8 | | 6,800 | 300 | |
| | Total | 51,200 | | 7,154 | 1,149 | 30,711,917 | 10,691 | |
| | **EMERALD** | | | | | | | |
| 1926 | A. Hubbard | 33 | | | | 7,920 | | |
| | **FARMER** | | | | | | | |
| 1937 | J. Farmer | 2 | | 3 | | 497 | | |
| 1948 | T. Farmer | 40 | | 17 | | 2,075 | 4,400 | |
| 1950 | do. | 450 | | 51 | | 12,611 | 19,224 | |
| | Total | 492 | | 71 | | 15,183 | 23,624 | |
| | **FLORA #1 & 2** | | | | | | | |
| 1951 | P. Janni | 7 | | 190 | | 4,183 | 713 | Lime company - ran onto ore pocket. |
| | **FRISCO-STANDARD** | | | | | | | |
| 1915 | G. Harrington | 5 | | 250 | 265 | | | |
| 1919 | Frisco-Standard Mining Co. | 7 | | 340 | | 1,693 | | Total development 2,234 ft. |
| 1921 | G. Harrington | 7 | | 276 | | 1,184 | | |
| 1941 | Hofer & Rush | 37 | 1 | 193 | 443 | 405 | | 20-ft. shaft. |
| 1942 | R. Hartman | 2 | | 117 | 128 | 451 | | 40-ton mill built. |



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TABLE 2. - Mine production of gold, silver, copper, lead, and zinc, 1902-56, by mines, in terms of recoverable metals (Con.)

NORTHPORT (ALADDIN) DISTRICT, STEVENS COUNTY (Con.)

| Year | Mine and operator | Ore (tons) | Gold (oz.) | Silver (oz.) | Copper (lb.) | Lead (lb.) | Zinc (lb.) | Remarks |
|---|---|---|---|---|---|---|---|---|
| | FRISCO-STANDARD (Con.) | | | | | | | |
| 1943 | Frisco-Standard Co. | 100 | | 311 | 337 | 940 | | |
| 1944 | do. | 100 | | 557 | 413 | 1,300 | | New mill equipment. |
| | Total | 258 | 1 | 2,044 | 1,586 | 5,973 | | |
| | GLADSTONE | | | | | | | |
| 1917 | Gladstone Mountain Mining Co. | 782 | | | | 230,052 | | |
| 1920 | do. | 267 | | 164 | | 343,567 | | Developed chimneys, 600-ft, shafts, 300-ft. drifts. |
| 1922 | do. | 323 | | 726 | | 459,582 | | 300-ft. drifting. 3 men - 3 tons per day. |
| 1923 | do. | 2,826 | | 1,467 | | 2,097,350 | | 100-ft. shaft, 1,350-ft. drift. |
| 1924 | do. | 3,132 | | 1,472 | | 2,445,185 | | |
| 1925 | do. | 4,283 | | 2,000 | | 3,491,608 | | 1,000-ft. development. No mill operating. |
| 1926 | do. | 4,724 | | 1,426 | | 3,347,459 | | |
| 1927 | do. | 290 | | 155 | | 346,906 | | 2,000-ft. development. |
| 1928 | do. | 632 | | 683 | 168 | 836,327 | | 300-ft. development. Leased 1/2 year. |
| 1929 | Lessees | 17 | | 33 | 20 | 23,626 | | |
| 1930 | Johnson Bros. | 179 | | 162 | 146 | 185,157 | | |
| 1931 | do. | 156 | | 95 | 125 | 144,542 | | |
| 1932 | do. | 141 | | 142 | | 183,487 | | Leased on royalty basis. |
| 1933 | do. | 101 | | 84 | | 113,363 | | |
| 1934 | W. Johnson | 20 | | 41 | | 24,155 | | Leased on royalty basis. |
| 1935 | Sam Halsey | 58 | | 64 | 21 | 42,243 | | |
| 1936 | Lessee | 41 | | 85 | | 43,422 | | |
| 1937 | do. | 54 | | 101 | | 75,216 | | |
| 1939 | C. McDonald | 24 | | 58 | | 32,722 | | |
| 1941 | Gladstone Mountain Mining Co. | 134 | | 118 | | 48,732 | 37,000 | |
| 1942 | S. Anderson | 17 | | 15 | | 20,062 | | |
| 1943 | do. | 88 | | 42 | | 64,337 | | |
| 1944 | do. | 203 | | 54 | | 116,619 | | |
| 1947 | Gladstone Mountain Mining Co. | 121 | | 88 | 358 | 85,450 | | |
| 1948 | do. | 717 | | 75 | | 85,943 | 2,675 | |
| 1949 | do. | 115 | | 27 | | 41,200 | 1,000 | |
| 1951 | do. | 5 | | 5 | | 7,287 | 47 | |
| 1952 | do. | 53 | | 28 | | 47,347 | 134 | |
| 1953 | do. | 44 | | 51 | | 52,941 | 425 | |
| 1954 | do. | 2 | | 2 | | 2,500 | | |
| 1956 | A. Lotze | 393 | | 139 | | 544,800 | 3,400 | Lessee. |
| | Total | 19,942 | | 9,602 | 838 | 15,583,187 | 44,681 | |
| | GREAT WESTERN | | | | | | | |
| 1916 | Norman Mines Co. | 32 | | 35 | | 18,979 | | |
| 1916 | do. | 2,056 | | | | 350,742 | 832,412 | |
| 1925 | Sauvola D. Koskia | 17 | | 22 | | 14,673 | | |
| 1926 | do. | 71 | | 68 | | 22,774 | 20,904 | |
| 1927 | do. | 58 | | | | | 26,840 | |
| 1928 | do. | 45 | | | | 9,712 | 22,656 | |
| 1929 | do. | 76 | | | | 17,192 | 33,712 | Total: 200-ft. drifts, 500-ft. tunnel. |
| | Total | 2,355 | | 125 | | 434,072 | 936,524 | |

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | **HAZEL** | | | | | | |
| 1922 | H. Rieper | 24 | | 770 | | 2,389 | | 100-ft. tunnel (total of 1,500-ft. tunnel). |
| | **HINCKLEY - CALUMET** | | | | | | |
| 1904 | G. Foster | 10 | | 433 | | 15,100 | | 153-ft. shaft, 160-ft. tunnel. |
| | **IROQUOIS** | | | | | | |
| 1917 | Iroquois Mining Co. | 22 | | 7 | | 10,463 | | |
| 1918 | do. | 6 | | 16 | | 6,639 | | |
| 1949 | Mine Management, Inc. | 3,000 | | 72 | | 11,500 | 97,450 | Total: 800-ft. crosscut, 2,000-ft. drift, 150-ft. raise. |
| | Total | 3,028 | | 95 | | 28,602 | 97,450 | |
| | **JACKSON GROUP (WHITE SILVER CITY)** | | | | | | |
| 1934 | T. Keyes | 6 | | 1,112 | 75 | 153 | | 75-ft. tunnel (total: 400-ft. tunnel). |
| 1935 | Silver Mountain Mining Co. | 1 | | 206 | 19 | 28 | | Building road. |
| | Total | 7 | | 1,318 | 94 | 181 | | |
| | **KING TUT** | | | | | | |
| 1926 | Deep Lake Mining Co. | 17 | | 10 | | 3,323 | 2,040 | |
| 1953 | Bailey, Moore & Dexter | 5 | | 6 | | 7,902 | | |
| | Total | 22 | | 16 | | 11,225 | 2,040 | |
| | **LA PLANT** | | | | | | |
| 1915 | O. La Plant | 19 | | 268 | | 10,223 | | |
| | **LAST CHANCE** | | | | | | |
| 1903 | C. C. Knudson | 800 | | | | 144,000 | | 235-ft. shaft, 880-ft. tunnel, 400-ft. drift. |
| 1904 | Jupiter Lead Co. | 4,000 | | 17,544 | | 1,632,440 | | Large group of claims - formerly Silver Butte. |
| 1905 | do. | 560 | | | | 558,000 | | |
| 1906 | do. | 890 | | 534 | | 890,000 | | |
| 1907 | do. | 463 | | | | 352,663 | | |
| 1908 | do. | 748 | | | | 822,800 | | |
| 1910 | do. | 760 | | | | 950,000 | | |
| 1911 | do. | 159 | | | | 200,277 | | |
| 1917 | A. Baker | 9 | | 12 | | 9,448 | | |
| 1918 | Roland Mining Association | 106 | | 83 | | 64,130 | | |
| 1920 | Last Chance Mining Co. | 175 | | 129 | | 135,261 | 15,232 | |
| 1921 | do. | 18 | | 18 | | 21,168 | | |
| 1926 | Washington Lead Co. | 15 | | 22 | | 9,626 | | |
| 1938 | Firmer Walkey | 33 | | 39 | | 33,184 | | |
| 1939 | Walkey & Hofer | 13 | | 23 | | 12,734 | | |
| 1947 | Last Chance Consolidated Mines, Inc. | 1,000 | | 70 | | 34,100 | 25,800 | Dump ore - tonnage estimated. |
| 1948 | do. | 800 | | 42 | | 28,700 | 40,135 | Primarily test operation on dump ores. |
| 1949 | do. | 850 | | 40 | | 29,853 | 26,900 | |
| 1950 | do. | 80 | | 6 | | 4,624 | 1,143 | |
| 1954 | do. | 50 | | 5 | | 4,700 | 900 | |
| | Total | 11,529 | | 18,567 | | 5,937,708 | 110,110 | |
| | **LEAD KING** | | | | | | |
| 1953 | J. Godfrey | 2 | | 1 | | 2,355 | | Total: 300-ft. tunnel. |
| 1954 | do. | 3 | | 2 | | 2,400 | | |
| | Total | 5 | | 3 | | 4,755 | | |

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NORTHPORT (ALADDIN) DISTRICT, STEVENS COUNTY (Con.)

| Year | Mine and operator | Ore (tons) | Gold (oz.) | Silver (oz.) | Copper (lb.) | Lead (lb.) | Zinc (lb.) | Remarks |
|---|---|---|---|---|---|---|---|---|
| | LEAD TRUST | | | | | | | |
| 1910 | Lead Trust Mining Co. | 30 | | | | 45,600 | | 60-ft. inclined shaft, worked 3 months. |
| 1915 | do. | 8 | | 40 | | 10,080 | | Assessment work only. |
| 1916 | do. | 9 | | 4 | | 10,642 | | |
| 1917 | do. | 43 | | 74 | | 65,496 | | |
| 1918 | do. | 23 | | 34 | | 32,384 | | Development work only. |
| 1920 | do. | 25 | | 40 | | 26,594 | | 200-ft. drifts. |
| 1922 | do. | 33 | | 97 | | 45,034 | | |
| 1923 | do. | 18 | | 51 | 25 | 25,442 | | |
| 1925 | do. | 53 | | 49 | | 28,152 | | |
| 1926 | Ed Rockley | 23 | | 16 | | 30,640 | | |
| 1927 | Lessee | 14 | | 27 | | 23,235 | | |
| 1930 | William McCue | 3 | | 8 | | 2,136 | | |
| 1935 | M. Kauffman | 10 | | 20 | 8 | 13,343 | | 20-ft. development. |
| 1939 | A. Anderson | 19 | | 242 | 34 | 13,129 | | |
| 1948 | Cardinal & Anderson | 19 | | 17 | | 15,860 | 590 | |
| 1950 | F. Cardinal | 6 | | 7 | | 3,254 | 254 | |
| 1953 | do. | 32 | | 87 | 43 | 9,124 | 419 | |
| 1954 | A. C. Neiman | 520 | | 570 | | 10,500 | 31,100 | |
| 1955 | Goldfield Consolidated Mines Co. | 2,183 | 3 | 118 | | 39,800 | 191,100 | |
| 1956 | do. | 3,252 | | 6 | | 5,500 | 900 | |
| | Total | 6,323 | 3 | 1,507 | 110 | 455,945 | 224,363 | |
| | LUCILLE | | | | | | | |
| 1927 | Boundary Lead-Silver Co. | 45 | | 589 | 270 | 16,681 | | |
| 1928 | do. | 56 | 1 | 445 | 55 | 13,622 | 6,931 | |
| 1948 | Consolidated Speculator Corp. | 160 | | 266 | | 6,500 | 13,030 | |
| 1949 | do. | 44 | | 129 | | 3,300 | 5,400 | 90-ft. drifts; buildings. |
| 1956 | Pacific Northwest Mining Co. | 3 | | 88 | | 2,500 | 500 | 176-ft. drift, 51-ft. raise. |
| | Total | 308 | 1 | 1,517 | 325 | 42,603 | 25,861 | |
| | MAPLE LEAF & LIBERTY | | | | | | | |
| 1918 | Melrose Mining Co. | 14 | | 927 | 642 | 1,105 | | |
| 1922 | P. Graham | 3 | | 181 | 81 | 470 | | |
| 1923 | do. | 3 | | 158 | 66 | 470 | | |
| 1934 | Melrose Mining Co. | 1 | | 73 | 39 | 144 | | 320-ft. raises. |
| 1937 | do. | 50 | | 301 | 149 | 625 | | Tonnage estimated. |
| 1938 | W. West | 19 | | 553 | 278 | 1,188 | | |
| | Total | 90 | | 2,193 | 1,255 | 4,002 | | |
| 1929 | METROPOLITAN | 1 | | 18 | | 696 | | |
| | MORNING | | | | | | | |
| 1928 | Olsen, Turner & Sterrett | 4 | | 297 | | 1,592 | | |
| 1929 | do. | 2 | | 140 | 3 | 959 | | |
| 1940 | Wilkerson & McKittrick | 1 | | 56 | 8 | 294 | | Total: 600-ft. drift and tunnel. |
| 1947 | Moonlight Mining Co. | 6 | | 686 | | 3,982 | 1,858 | 39-ft. shaft. |
| 1948 | do. | 6 | | 533 | | 4,090 | 3,040 | 27-ft. shaft. |
| | Total | 19 | | 1,712 | 11 | 10,917 | 4,898 | |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | **MYEERAH** | | | | | | | |
| 1926 | H. Reiper | 16 | | 262 | 45 | 7,933 | | |
| 1942 | do. | 5 | | 26 | | 782 | | |
| | Total | 21 | | 288 | 45 | 8,715 | | |
| | **NORTHWEST** | | | | | | | |
| 1920 | T. Harris | 630 | | | | | 411,264 | Inclined shaft and drifts - prospect. |
| | **OLD CHINTO** | | | | | | | |
| 1951 | W. Anderson | 24 | | 230 | 1,189 | | | |
| | **PARAGON** | | | | | | | |
| 1913 | Paragon Mining & Development Co. | 7 | | 780 | | 7,174 | | 1,000-ft. tunnel. |
| | **PHOENIX** | | | | | | | |
| 1920 | Phoenix Lumber Co. | 1 | | 31 | | 835 | | |
| | **PROGRESS** | | | | | | | |
| 1928 | R. Wells | 4 | | 20 | | 3,391 | | Total: 760-ft. tunnel. |
| | **RED TOP** | | | | | | | |
| 1926 | Red Top Mining Co. | 20 | | 320 | | 12,862 | | |
| 1928 | do. | 8 | | 101 | 20 | 4,395 | | Total: 3 tunnels - 2,300 ft. |
| 1938 | do. | 42 | | 1,076 | 535 | 33,146 | | |
| 1944 | do. | 275 | | 409 | 400 | 14,900 | 23,213 | 4,500-ft. tunnel. |
| 1950 | J. Colby | 156 | | 170 | | 5,288 | 10,278 | |
| 1952 | Pacific Northwest Mining Co. | 396 | | 1,063 | 789 | 34,859 | 11,550 | |
| 1953 | do. | 1,127 | 1 | 2,552 | 816 | 80,121 | 55,554 | |
| 1956 | A. Neiman | 450 | 2 | 648 | 400 | 21,800 | 40,000 | |
| | Total | 2,474 | 3 | 6,339 | 2,960 | 207,371 | 140,595 | |
| | **ROOSEVELT** | | | | | | | |
| 1937 | T. Jones | 48 | | 897 | | 1,004 | | |
| | **SHAW** | | | | | | | |
| 1917 | A. Shaw | 1 | 2 | 48 | | | | |
| | **SIERRA ZINC** | | | | | | | |
| 1956 | Goldfield Consolidated Mining Co. | 1,380 | | | | 29,900 | 36,900 | |
| | **SILVER CROWN & NORTHERN LIGHT** | | | | | | | |
| 1925 | Wilcox & Liebe | 14 | | 130 | | 2,619 | | |
| 1926 | do. | 20 | | 179 | | 3,055 | | |
| | Total | 34 | | 309 | | 5,674 | | |
| | **SIMMONS** | | | | | | | |
| 1929 | W. Simmons | 3 | | 93 | 12 | 2,898 | | |
| | **SPOKANE MINES** | | | | | | | |
| 1917 | Spokane Mines Development Association | 20 | 1 | 300 | | 9,234 | | |
| | **SUNRISE** | | | | | | | |
| 1940 | Martin & Jorgensen | 4 | | 3 | | 950 | | |
| | **UNITED TREASURE** | | | | | | | |
| 1916 | Hartman & Kuhnert | 8 | | 208 | | 5,600 | | |
| 1917 | do. | 32 | 1 | 1,407 | 535 | 6,438 | | |
| 1918 | do. | 15 | | 585 | | 2,699 | | |
| 1919 | do. | 10 | | 300 | | 10,100 | | |
| 1920 | do. | 10 | | 614 | | 2,094 | | 600-ft. tunnel - assessment work only. |



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TABLE 2. - Mine production of gold, silver, copper, lead, and zinc, 1902-56, by mines, in terms of recoverable metals (Con.)

NORTHPORT (ALADDIN) DISTRICT, STEVENS COUNTY (Con.)

| Year | Mine and operator | Ore (tons) | Gold (oz.) | Silver (oz.) | Copper (lb.) | Lead (lb.) | Zinc (lb.) | Remarks |
|---|---|---|---|---|---|---|---|---|
| | UNITED TREASURE (Con.) | | | | | | | |
| 1926 | N. Hartman | 3 | | 129 | 21 | 818 | | |
| 1933 | R. Reinersten | 3 | | 353 | 77 | 1,775 | | 200-ft. development. |
| 1935 | do. | 2 | | 153 | 62 | 765 | | |
| 1953 | Singlejack Silver Co. | 1 | | 34 | | 413 | 22 | |
| | Total | 84 | 1 | 3,783 | 695 | 30,702 | 22 | |
| | WHITE CITY | | | | | | | |
| 1928 | W. Oliver | 7 | | 1,439 | 54 | 311 | | 100-ft. tunnel and stopes. |

ORIENT (PIERRE LAKE) DISTRICT, STEVENS COUNTY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | BEECHER | | | | | | | |
| 1909 | Beecher Gold Mining Co. | 26 | 30 | 4 | | | | Shaft 102 ft. - shipped to Northport smelter. |
| 1915 | Alex Anderson | 15 | 11 | | | | | |
| 1916 | do. | 23 | 17 | 4 | | | | 70-ft. drifts, 120-ft. adit. |
| | Total | 64 | 58 | 8 | | | | |
| | BIG BEAR | | | | | | | |
| 1915 | C. Denenish | 5 | 1 | 13 | | | | |
| | BIG IRON | | | | | | | |
| 1926 | Big Iron Mining Co. | 28 | 13 | 19 | | | | Two 100-ft. shafts. Quarry; mining magnetic iron. |
| | BUCHER | | | | | | | |
| 1908 | A. Anderson | 27 | 43 | 38 | | | | |
| | EASTER MOUNTAIN | | | | | | | |
| 1935 | E. Ernst | 9 | 2 | 91 | 49 | 416 | | |
| | ELDORADO | | | | | | | |
| 1928 | H. Hall | 130 | 29 | 19 | | | | Cleanings. |
| | FH & C | | | | | | | |
| 1917 | Henessey & McCoy | 10 | 24 | 19 | | | | |
| 1918 | do. | 21 | 38 | 19 | | | | |
| 1929 | Acme Consolidated Mines, Inc. | 74 | 34 | 44 | 169 | | | Total: 180-ft. shaft, 250-ft. drift. |
| 1930 | do. | 1 | 2 | 2 | | | | 70-ft. shaft, 75-ft. drifts. |
| | Total | 106 | 98 | 84 | 169 | | | |
| | FIRST THOUGHT | | | | | | | |
| 1904 | First Thought Gold Mines Ltd. | 510 | 493 | 517 | | | | 300-ft. crosscut tunnel, 50-ft. winze. |
| 1905 | do. | 4,350 | 5,473 | 2,369 | | | | Granby and Northport smelters. |
| 1906 | do. | 4,100 | 3,441 | 1,500 | | | | |
| 1907 | do. | 8,265 | 6,359 | 2,478 | | | | 125-ft. winze, 3,000-ft. drifts. |
| 1908 | do. | 10,364 | 8,263 | 3,083 | | | | |
| 1909 | do. | 6,015 | 4,965 | | | | | |
| 1910 | do. | 2,560 | 1,184 | 1,024 | | | | Operated 6 months - shipped to Trail, B. C. |
| 1931 | Sunset Gold Mining Co. | 47 | 119 | 129 | | | | 100-ft. development. |
| 1932 | do. | 357 | 119 | 129 | | | | Dump material. |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1934 | R. Parker | 5,096 | 1,603 | 1,611 | | | | 200-ft. development. Mostly from dump. |
| 1935 | do. | 2,520 | 1,153 | 789 | | | | 350-ft. development. Mine dewatered. |
| 1936 | do. | 117 | 85 | 42 | | | | 500-ft. development. 50-ton mill; 14 men. |
| 1937 | do. | 4,683 | 764 | 486 | | | | 750-ft. tunnel and drifts. |
| 1938 | do. | 11,668 | 1,723 | 963 | | | | 600-ft. development. |
| 1940 | First Thought Mine Corp. | 5,189 | 769 | 460 | | | | 150-ft. drift. |
| 1941 | do. | 12,000 | 1,328 | 790 | | | | 400-ft. drifts; 50-ton cyanide plant. |
| 1942 | do. | 3,780 | 595 | 329 | | | | 350-ft. drifts; closed for duration. |
| | Total | 81,621 | 38,436 | 16,699 | | | | |
| | GALENA HILL | | | | | | | |
| 1913 | Galena Hill Mining Co. | 28 | | 58 | | 8,254 | | |
| | GEM | | | | | | | |
| 1932 | Gem Gold Mines, Inc. | 2 | 6 | 11 | | | | Worked about 3 months. |
| 1935 | S. D. Kelly | 1 | 1 | | | | | 125-ft. development. |
| 1936 | Gem Gold Mines, Inc. | 3 | | 20 | | 3,087 | | |
| 1939 | do. | | 11 | 1 | | | | Less than 1 ton ore. |
| 1941 | do. | 28 | 17 | | 50 | | | 10-ft. drifts. |
| | Total | 34 | 35 | 32 | 50 | 3,087 | | |
| | GOLD FISSURE | | | | | | | |
| 1934 | H. Linden | 53 | 37 | 41 | 75 | 270 | | Total: 150-ft. shaft, 440-ft. tunnel. |
| 1935 | Gold Fissure Mining Co. | 26 | 24 | 23 | 11 | 159 | | |
| | Total | 79 | 61 | 64 | 86 | 429 | | |
| | GOLD STAKE | | | | | | | |
| 1939 | Gold Stake Mining Corp. | 2 | 6 | 2 | 29 | 21 | | |
| 1940 | do. | 2 | 16 | 8 | 48 | 55 | | |
| | Total | 4 | 22 | 10 | 77 | 76 | | |
| | HART | | | | | | | |
| 1915 | Del Hart | 8 | 4 | 42 | | | | |
| | HIDDEN TREASURE | | | | | | | |
| 1934 | L. Gourlie | 24 | 18 | 20 | | | | |
| | LITTLE GIANT | | | | | | | |
| 1910 | W. Stearns | 12 | 6 | 12 | 240 | | | Vertical shaft 160-ft. |
| 1932 | Dr. Sutherland | 8 | 11 | 30 | | | | |
| | Total | 20 | 17 | 42 | 240 | | | |
| | McNALLY | | | | | | | |
| 1937 | F. O'Neil | 5 | 3 | 4 | | | | |
| 1938 | T. O'Neil | 20 | 15 | 24 | | | | |
| | Total | 25 | 18 | 28 | | | | |
| | MONTANA & WASHINGTON | | | | | | | |
| 1920 | Montana & Washington Mining & Milling Co. | 11 | 4 | 46 | | 839 | | |
| | NAPOLEON GROUP | | | | | | | |
| 1905 | British Columbia Copper Co. | 3,432 | 304 | | | | | Quarry and 200-ft. tunnel. |
| 1906 | do. | 5,674 | 262 | 526 | 31,622 | | | |
| 1907 | do. | 11,935 | 548 | 1,382 | 53,044 | | | 300-ft. tunnel and raises - mined for sulfur content. |
| 1908 | do. | 16,403 | 518 | 1,215 | 71,106 | | | 200-ft. tunnel. |
| 1909 | do. | 13,922 | 696 | 1,031 | 60,329 | | | Operating 1,750-ft. tramway to rail siding. |



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TABLE 2. - Mine production of gold, silver, copper, lead, and zinc, 1902-56, by mines, in terms of recoverable metals (Con.)

ORIENT (PIERRE LAKE) DISTRICT, STEVENS COUNTY (Con.)

| Year | Mine and operator | Ore (tons) | Gold (oz.) | Silver (oz.) | Copper (lb.) | Lead (lb.) | Zinc (lb.) | Remarks |
|---|---|---|---|---|---|---|---|---|
| | NAPOLEON GROUP (Con.) | | | | | | | |
| 1910 | British Columbia Copper Co. | 13,549 | 233 | 986 | 42,896 | | | 150-ft. raises, 50-ft. drift, 12,000 yards stripping. |
| 1911 | do. | 23,192 | 1,192 | 889 | 39,990 | | | 10-stamp mill - little development. |
| 1912 | do. | 23,304 | 916 | 435 | 65,243 | | | 80-ton amalgamation and cyanidation mill. |
| 1913 | do. | 29,131 | 952 | 2,201 | 114,658 | | | No additional development. |
| 1914 | do. | 5,843 | 320 | 472 | 23,907 | | | |
| 1916 | do. | 10,877 | 310 | 578 | 50,021 | | | Operated intermittently. |
| 1917 | Canada Copper Co. | 466 | 10 | 16 | 2,007 | | | |
| | Total | 157,728 | 6,261 | 9,731 | 554,823 | | | |
| | OLD TENDERFOOT | | | | | | | |
| 1917 | Orient Metals Co. | 10 | | 20 | | 9,969 | | |
| | PRINCESS | | | | | | | |
| 1926 | Princess Gold Mining Co. | 22 | 24 | 14 | | | | |
| | SWAMP QUEEN | | | | | | | |
| 1928 | J. Mears | 2 | 3 | 9 | | | | |
| | T & D (FATHER LODE) | | | | | | | |
| 1933 | T & D Lead-Silver-Gold Co. | 32 | 11 | 19 | 140 | | | |
| | WARTES | | | | | | | |
| 1940 | L. Wartes | 1 | | 17 | 13 | 8 | | |
| | WHITE BEAR | | | | | | | |
| 1933 | J. Dilley | 1 | 1 | 4 | | | | |

SPRINGDALE DISTRICT, STEVENS COUNTY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | ANDERSON | | | | | | | |
| 1928 | A. Anderson | 13 | | 161 | 58 | 3,392 | | |
| | BONANZA COPPER | | | | | | | |
| 1916 | Bonanza Copper Co. | 7 | | 4 | 1,735 | | | |
| 1919 | do. | 6 | | 5 | 671 | | | |
| | Total | 13 | | 9 | 2,406 | | | |
| | CLEVELAND | | | | | | | |
| 1903 | Cleveland Olympia Mining Co. | 70 | | 9,259 | | | | |
| 1904 | do. | 80 | | 3,596 | | 80,000 | | Shaft 200 ft., tunnel 700 ft. |
| 1906 | Lovely Bros. | 30 | | 900 | | | | |
| 1911 | Granby Consolidated Mining & Milling Co. | 11 | | 223 | | 6,761 | | |
| 1918 | Santa Rita Mining Co. | 352 | 1 | 1,483 | 244 | 34,324 | | |
| 1919 | do. | 224 | 1 | 1,119 | 339 | 26,551 | | 300-ft. tunnel. Crusher - ball mill - flotation. |
| 1922 | do. | 2,479 | 7 | 7,170 | 133 | 254,065 | | Mostly development. |
| 1923 | do. | 4,530 | 16 | 13,663 | 783 | 583,891 | | |
| 1924 | do. | 3,018 | 11 | 11,922 | | 400,863 | | 200-ft. tunnel. |
| 1925 | do. | 2,664 | 10 | 8,852 | | 237,844 | | 60-ft. raise, 80-ft. crosscut. |
| 1937 | M. Carr | 70 | | 743 | | 20,016 | 8,000 | |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1938 | Charles Fond | 13 | | 138 | | 2,547 | | |
| 1939 | do. | 23 | | 910 | 19 | 16,900 | | |
| 1941 | Brass, Wellman & Brass | 6 | | 289 | | 5,464 | | |
| 1942 | Zenith Mines, Inc. | 1,859 | 7 | 8,151 | 1,705 | 167,222 | 186,000 | Total: 1,120-ft. tunnel, 1,000-ft. raises and drift. |
| 1943 | do. | 1,700 | 4 | 4,426 | | 104,296 | 28,000 | |
| 1944 | do. | 1,000 | 2 | 3,019 | 779 | 73,581 | 49,000 | |
| 1946 | do. | 3,170 | 10 | 7,241 | 470 | 266,530 | 51,000 | |
| 1947 | Base Metals, Inc. | 5,000 | 20 | 15,015 | 2,670 | 408,010 | 221,000 | 250-ft. diamond drilling. |
| 1948 | do. | 160 | | 626 | 250 | 11,135 | 8,170 | |
| | Total | 26,459 | 89 | 98,745 | 7,392 | 2,700,000 | 551,170 | |
| | **COPPER BUTTE** | | | | | | | |
| 1916 | M. Runyan | 30 | | | 1,699 | | | |
| 1917 | Wallace & Schuman | 90 | | | 2,813 | | | |
| | Total | 120 | | | 4,512 | | | |
| | **COPPER KING GROUP** | | | | | | | |
| 1919 | Golden Seal Mining & Milling Co. | 28 | | 965 | | | | |
| | **ELEPHANT** | | | | | | | |
| 1928 | Venus Silver Mines Co. | 22 | 1 | 2,774 | 115 | 2,834 | | |
| 1929 | do. | 16 | 1 | 1,325 | 83 | 1,629 | | Total: 145-ft. shaft, 200-ft. tunnel. |
| 1930 | do. | 10 | | 899 | 95 | 1,485 | | Total: 12 tunnels 6,000 ft. |
| | Total | 48 | 2 | 4,998 | 293 | 5,948 | | |
| | **GOLDEN SEAL** | | | | | | | |
| 1917 | Golden Seal Mining & Milling Co. | 9 | | 3 | 1,620 | | | 5 tunnels - total 1,400-ft. development. |
| 1918 | William Kuhnert | 14 | | | 2,542 | | | |
| | Total | 23 | | 3 | 4,162 | | | |
| 1927 | **GRAY EAGLE** | 3 | | 101 | | 152 | | |
| | **KEMP KOMAR** | | | | | | | |
| 1909 | Kemp Komar Copper Co. | 78 | | | 39,780 | | | 150-ft. development. |
| | **LOON LAKE** | | | | | | | |
| 1916 | Loon Lake Copper Co. | 646 | 6 | 72 | 115,113 | | | 300-ft. shaft, 600-ft. drift, 200-ft. adit. |
| 1917 | do. | 1,537 | 10 | 87 | 290,690 | | | |
| 1918 | do. | 405 | 5 | 49 | 74,863 | | | |
| 1919 | do. | 4,560 | 4 | 27 | 132,338 | | | Constructed 100-ton flotation mill. |
| 1920 | do. | 100 | | 297 | 7,513 | | | |
| 1952 | W. West | 69 | | | 2,038 | | | |
| | Total | 7,317 | 25 | 532 | 622,555 | | | |
| | **O-LO-LIM COPPER** | | | | | | | |
| 1917 | O-Lo-Lim Copper Co. | 73 | | 61 | 8,803 | | | 100-ft. shaft, 50-ft. drift. |
| 1918 | do. | 105 | | 135 | 16,288 | | | |
| 1919 | do. | 99 | | 141 | 19,852 | | | 65-ft. shaft, 18-ft. drift. |
| | Total | 277 | | 337 | 44,943 | | | |
| | **PROVIDENCE** | | | | | | | |
| 1922 | S. Connor | 13 | | 1,232 | | 1,166 | | |
| | **RAMBLER** | | | | | | | |
| 1916 | J. Wolf | 2 | | | 100 | | | 480-ft. drifts. |
| 1917 | do. | 1 | | | 100 | | | |
| | Total | 3 | | | 200 | | | |



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TABLE 2. - Mine production of gold, silver, copper, lead, and zinc, 1902-56, by mines, in terms of recoverable metals (Con.)

SPRINGDALE DISTRICT, STEVENS COUNTY (Con.)

| Year | Mine and operator | Ore (tons) | Gold (oz.) | Silver (oz.) | Copper (lb.) | Lead (lb.) | Zinc (lb.) | Remarks |
|---|---|---|---|---|---|---|---|---|
| | TOGO | | | | | | | |
| 1913 | Consolidated Copper Co. | 15 | | 69 | 3,177 | | | 2,000-ft. tunnel and drifts. |
| 1914 | do. | 20 | | 65 | 3,177 | | | Completed new camp. |
| 1929 | do. | 63 | | 108 | 12,802 | | | |
| | Total | 98 | | 242 | 19,156 | | | |

VALLEY DISTRICT, STEVENS COUNTY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | ADMIRAL (BANSHEE) | | | | | | | |
| 1908 | Tate & Greenway | 20 | 1 | 8 | 3,818 | | | 350-ft. tunnel. 1 carload to Northport. |
| 1909 | do. | 20 | 20 | 25 | 4,037 | | | 45-ft. development. |
| 1911 | do. | 16 | | 80 | 2,240 | | | 220-ft. drifts. |
| 1916 | J. Brown | 31 | | 9 | 3,814 | 850 | | 340-ft. tunnel. |
| 1917 | do. | 38 | 1 | 11 | 4,857 | | | Shipping to Trail, B. C. |
| | Total | 125 | 22 | 133 | 18,766 | 850 | | |
| | DOUBLE EAGLE | | | | | | | |
| 1916 | Double Eagle Mining Co. | 37 | | 1,273 | 3,066 | 3,015 | | 700-ft. tunnel. |
| 1939 | do. | 5 | | 352 | 105 | 74 | | |
| | Total | 42 | | 1,625 | 3,171 | 3,089 | | |
| | EDNA | | | | | | | |
| 1917 | Valley Mining Co. | 31 | | | 2,085 | | | 300-ft. inclined shaft, 200-ft. drift. |
| | REDEMPTION | | | | | | | |
| 1918 | J. Acdam | 16 | | | 1,408 | | | |
| | SILVERINE | | | | | | | |
| 1904 | Kaiser et. al. | 11 | | 1,175 | | | | 2 tunnels about 120 ft. |
| 1908 | J. Kaiser | 11 | | 1,243 | | 3,262 | | 100-ft. tunnel. |
| | Total | 22 | | 2,418 | | 3,262 | | |

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## APPENDIX

### Alphabetical list of mines in table 2

| Mine | District | County |
|---|---|---|
| Acorn | Colville | Stevens. |
| Admiral | Northport | Do. |
| Admiral (Banshee) | Valley | Do. |
| Advance | Northport | Do. |
| Aladdin | do. | Do. |
| Alderson | Deer Trail | Do. |
| Amazon | Chewelah | Do. |
| Anderson | Northport | Do. |
| Do. | Springdale | Do. |
| B & B | Chewelah | Do. |
| Bailey | Northport | Do. |
| Bead Lake | Newport | Pend Oreille. |
| Beecher | Orient | Stevens |
| Bella May (Metaline) | Metaline | Pend Oreille. |
| Ben Venue | Kettle Falls | Stevens. |
| Big Bear | Orient | Do. |
| Big Chief | Bossburg | Do. |
| Big Iron | Orient | Do. |
| Big Silver | Kettle Falls | Do. |
| Big Strike | Colville | Do. |
| Black Eagle | Northport | Do. |
| Black Rock (Maki) | do. | Do. |
| Blue Ridge | do. | Do. |
| Blue Star | Chewelah | Do. |
| Bob & Wilson | Northport | Do. |
| Bonanza | Bossburg | Do. |
| Bonanza Copper | Springdale | Do. |
| Browns Lake | Chewelah | Do. |
| Bruce | Colville | Do. |
| Bryan | Northport | Do. |
| Bucher | Orient | Do. |
| Bullion group | Northport | Do. |
| Burrus | Colville | Do. |
| Buzzell | Metaline | Pend Oreille. |
| Carter & Knapp | Kettle Falls | Stevens. |
| Cedar Canyon | Deer Trail | Do. |
| Chinto | Chewelah | Do. |
| Chloride Queen | Bossburg | Do. |
| Clark | Metaline | Pend Oreille. |
| Cleveland | Springdale | Stevens. |
| Cliff | Metaline | Pend Oreille. |
| Clugston (Dead Medicine) | Colville | Stevens. |
| Clugston Creek | Bossburg | Do. |
| Colburn-Triangle | Colville | Do. |
| Copper Butte | Springdale | Stevens. |
| Copper Gold | Chewelah | Do. |
| Copper King | do. | Do. |
| Copper King group | Springdale | Do. |
| Coyote | Northport | Do. |
| Crawford | Deer Trail | Do. |

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## Alphabetical list of mines in table 2 (Con.)

| Mine | District | County |
|---|---|---|
| Crystal | Northport | Stevens |
| Daisy | Kettle Falls | Do. |
| Deep Creek | Northport | Do. |
| De Staffany | Bossburg | Do. |
| Diamond R. | Metaline | Pend Oreille. |
| Doherty | do. | Do. |
| Double Eagle | Valley | Stevens. |
| Dorman | Kettle Falls | Do. |
| Draper | Northport | Do. |
| Eagle | Chewelah | Do. |
| Do. | Kettle Falls | Do. |
| Do. | Newport | Pend Oreille. |
| Easter Mountain | Orient | Stevens. |
| Easy Money | Colville | Do. |
| Edna | Valley | Do. |
| El Dorado | Orient | Do. |
| Electric Point | Northport | Do. |
| Elephant | Springdale | Do. |
| Elzora | Bossburg | Do. |
| Emerald | Northport | Do. |
| Farmer | do. | Do. |
| F H & C | Orient | Do. |
| First Thought | do. | Do. |
| Flora 1 & 2 | Northport | Do. |
| Frisco-Standard | do. | Do. |
| Galena Hill | Orient | Do. |
| Galena Knob group | Colville | Do. |
| Gem | Orient | Do. |
| George Boulder | Bossburg | Do. |
| Gladstone | Northport | Do. |
| Gold Fissure | Orient | Do. |
| Gold Ledge | Kettle Falls | Do. |
| Gold Reef | do. | Do. |
| Gold Stake | Orient | Do. |
| Golden Seal | Springdale | Do. |
| Grandview | Metaline | Pend Oreille. |
| Grand View | Deer Trail | Stevens. |
| Gray Eagle | Springdale | Do. |
| Gray Goose | Newport | Pend Oreille. |
| Great Western | Northport | Stevens. |
| Guarantee | Chewelah | Do. |
| Gundry | Kettle Falls | Do. |
| Hamilton | Colville | Do. |
| Hart | Orient | Do. |
| Hartford | Chewelah | Do. |
| Hazel | Northport | Do. |
| Hidden Treasure | Orient | Do. |
| High Cliff | Bossburg | Do. |
| High Grade | Chewelah | Do. |
| High Grade (Turk) | Deer Trail | Do. |
| Hinckley-Calumet | Northport | Do. |
| Holt | Chewelah | Do. |

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## Alphabetical list of mines in table 2 (Con.)

| Mine | District | County |
|---|---|---|
| Houseland & Melby | Colville | Stevens. |
| Ideal | Kettle Falls | Do. |
| Iroquois | Northport | Do. |
| Jackson group (White Silver City) | do. | Do. |
| Jacobs & Meyers | Kettle Falls | Do. |
| Jay Gould | Chewelah | Do. |
| John G. | Kettle Falls | Do. |
| June Echo | Chewelah | Do. |
| K. K. | Metaline | Pend Oreille. |
| Kemp-Komar | Springdale | Stevens. |
| Keough | Chewelah | Do. |
| Kettle Falls | Kettle Falls | Do. |
| King | Deer Trail | Do. |
| King Tut | Northport | Do. |
| Koyotte | Kettle Falls | Do. |
| La Plant | Northport | Do. |
| Last Chance | do. | Do. |
| Lead Hill | Metaline | Pend Oreille. |
| Lead King | do. | Do. |
| Do. | Northport | Stevens. |
| Lead Queen | Metaline | Pend Oreille. |
| Lead Trust | Northport | Stevens. |
| Legal Tender | Deer Trail | Do. |
| Liberty | Chewelah | Do. |
| Little Giant | Orient | Do. |
| Little Helen | Deer Trail | Do. |
| Lone Star | Metaline | Pend Oreille. |
| Loon Lake | Springdale | Stevens. |
| Lucille | Northport | Do. |
| Lucky Strike | Kettle Falls | Do. |
| Do. | Metaline | Pend Oreille. |
| M & M | Kettle Falls | Stevens. |
| Maple Leaf & Liberty | Northport | Do. |
| Marcus | Bossburg | Do. |
| McCoy | Deer Trail | Do. |
| McNally | Orient | Do. |
| Metaline Consolidated | Metaline | Pend Oreille. |
| Metaline Oriole | do. | Do. |
| Metropolitan | Northport | Stevens. |
| Middleport | Colville | Do. |
| Minorca | Bossburg | Do. |
| Mohawk | Metaline | Pend Oreille. |
| Montana & Washington | Orient | Stevens |
| Morning | Northport | Do. |
| Myeerah | do. | Do. |
| Napoleon group | Orient | Do. |
| Napoleon millsite | Kettle Falls | Do. |
| Neglected group | Bossburg | Do. |
| Nevada | Chewelah | Do. |
| Northwest | Colville | Do. |
| Do. | Northport | Do. |
| Norton | Kettle Falls | Do. |

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## Alphabetical list of mines in table 2 (Con.)

| Mine | District | County |
|---|---|---|
| Norway King | Colville | Stevens |
| Old Chinto | Northport | Do. |
| Old Dominion | Colville | Do. |
| Old Tenderfoot | Orient | Do. |
| O-Lo-Lim Copper | Springdale | Do. |
| Onion Creek | Colville | Do. |
| Orazada | Deer Trail | Do. |
| Ore Cache | Colville | Do. |
| Oriole | Metaline | Pend Oreille. |
| Paragon | Northport | Stevens. |
| Pend Oreille (Josephine) | Metaline | Pend Oreille. |
| Phoenix | Northport | Stevens. |
| Poorman | Metaline | Pend Oreille. |
| Princess | Orient | Stevens. |
| Progress | Northport | Do. |
| Prosperity | Kettle Falls | Do. |
| Providence | Deer Trail | Do. |
| Do. | Springdale | Do. |
| Queen | Deer Trail | Do. |
| Rambler | Springdale | Do. |
| Redemption | Valley | Do. |
| Red Top | Northport | Do. |
| Rightside (Gray Eagle) | Kettle Falls | Do. |
| Robena | Bossburg | Do. |
| Rocky Creek | Metaline | Pend Oreille. |
| Roosevelt | Northport | Stevens. |
| Royal | Deer Trail | Do. |
| Sampson | Metaline | Pend Oreille. |
| Santiago | Kettle Falls | Stevens. |
| Schuman | Deer Trail | Do. |
| Seal & Queen | do. | Do. |
| Shallenberger | Metaline | Pend Oreille. |
| Shaw | Northport | Stevens. |
| Shumacher-Campbell | Colville | Do. |
| Sibbley-McKinley | Bossburg | Do. |
| Sierra Zinc | Northport | Do. |
| Silver Crown & Northern Light | do. | Do. |
| Silver Horde & Red Cloud | Deer Trail | Do. |
| Silver Seal (Van Horn) | do. | Do. |
| Silver Star | Kettle Falls | Do. |
| Silver Trail | Bossburg | Do. |
| Silver Summit | Chewelah | Do. |
| Silver Union | do. | Do. |
| Silverine | Valley | Do. |
| Simmons | Northport | Do. |
| Smokey Bullion | Colville | Do. |
| Snyder & Baxter | Deer Trail | Do. |
| Standard Chewelah | Chewelah | Do. |
| Sterling | Metaline | Pend Oreille. |
| Spokane Mines | Northport | Stevens. |
| Sullivan | Metaline | Pend Oreille. |
| Summit | Chewelah | Stevens. |

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| Mine | District | County |
|---|---|---|
| Sunday Star | Kettle Falls | Stevens. |
| Sunrise | Northport | Do. |
| Swamp Queen | Orient | Do. |
| T & D (Father Lode) | do. | Do. |
| Tenderfoot | Deer Trail | Do. |
| Togo | Springdale | Do. |
| Uncle Sam group | Colville | Do. |
| United Copper | Chewelah | Do. |
| United States | do. | Do. |
| United Treasure | Northport | Do. |
| Velvet | Metaline | Pend Oreille. |
| Warters | Orient | Stevens. |
| What Ho | Chewelah | Do. |
| White Bear | Orient | Do. |
| White City | Northport | Do. |
| Womac | Kettle Falls | Do. |
| Young America | Bossburg | Do. |
| Z Canyon group | Metaline | Pend Oreille. |

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